

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No.

UTU-0463

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 922-30L-T

9. API Well No.

4304739540

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Blk. and Survey or Area

LOT 3, SEC. 30, T9S, R22E

12. County or Parish

UINTAH

13. State

UTAH

1a. Type of Work: ☒ DRILL

☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR MCGEE OIL & GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

NW/SW 2106'FSL, 817'FWL

629146K

40.005654

At proposed prod. Zone

44292714

-109.486988

14. Distance in miles and direction from nearest town or post office*

16.5 +/- MILES SOUTH OF OURAY, UTAH

15. Distance from proposed*

location to nearest

property or lease line, ft.

(Also to nearest drig. unit line, if any)

817'

16. No. of Acres in lease

551.44

17. Spacing Unit dedicated to this well

40.00

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

REFER TO
TOPO C

19. Proposed Depth

9460'

20. BLM/BIA Bond No. on file

BOND NO: WYB000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

4973'GL

22. Approximate date work will start*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized office.

25. Signature

Name (Printed/Typed)

SHEILA UPCHEGO

Date

8/16/2007

Title

SENIOR LAND ADMIN SPECIALIST

Name (Printed/Typed)

BRADLEY G. HILL
ENVIRONMENTAL MANAGER

Date

08-29-07

Title

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Federal Approval of this
Action is Necessary

RECEIVED

AUG 20 2007

DIV. OF OIL, GAS & MINING

SCALE 1" = 1000'	DATE SURVEYED: 05-24-06	DATE DRAWN: 05-31-06
PARTY J.R. A.A. C.H.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr McGee Oil & Gas Onshore LP	

**NBU #922-30L-T
NW/SW SEC 30, T9S, R22E
UINTAH COUNTY, UTAH
UTU-0463**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1506'
Top of Birds Nest Water	1751'
Mahogany	2363'
Wasatch	4674'
Mesaverde	7302'
MVU2	8313'
MVL1	8845'
TD	9460'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1506'
	Top of Birds Nest Water	1751'
	Mahogany	2363'
Gas	Wasatch	4674'
Gas	Mesaverde	7302'
Gas	MVU2	8313'
Gas	MVL1	8845'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. Evaluation Program:

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9460' TD, approximately equals 5865 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3784 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please see Natural Buttes Unit SOP.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-MCGEE OIL & GAS ONSHORE LP	DATE	August 16, 2007		
WELL NAME	NBU 922-30L-T	TD	9,460'	MD/TVD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
		ELEVATION	4,973' GL	KB	4,988'
SURFACE LOCATION	NW/SW LOT 3, SEC. 30, T9S, R22E 2106'FSL, 817'FWL			BHL	Straight Hole
	Latitude: 40.005522	Longitude: 109.487739			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,674'					
	Green River @	1,506'			
	Top of Birds Nest Water @	1,751'			
	Mahogany @	2,363'			
	Preset f/ GL @				
	2,400' MD				
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD					Water/Fresh
Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water Mud
	Wasatch @	4,674'			8.3-11.5 ppg
	Mverde @	7,302'			
	MVU2 @	8,313'			
	MVL1 @	8,845'			
	TD @	9,460'			Max anticipated Mud required
					11.5 ppg



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2400	32.30	H-40	STC	0.63*****	1.22	3.74
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9460	11.60	I-80	LTC	2.18	1.12	2.10

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
- MASP 3576 psi
- ***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		BOPE	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			NOTE: If well will circulate water to surface, option 2 will be utilized				
	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,170'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	460	60%	11.00	3.38
	TAIL	5,290'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1480	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

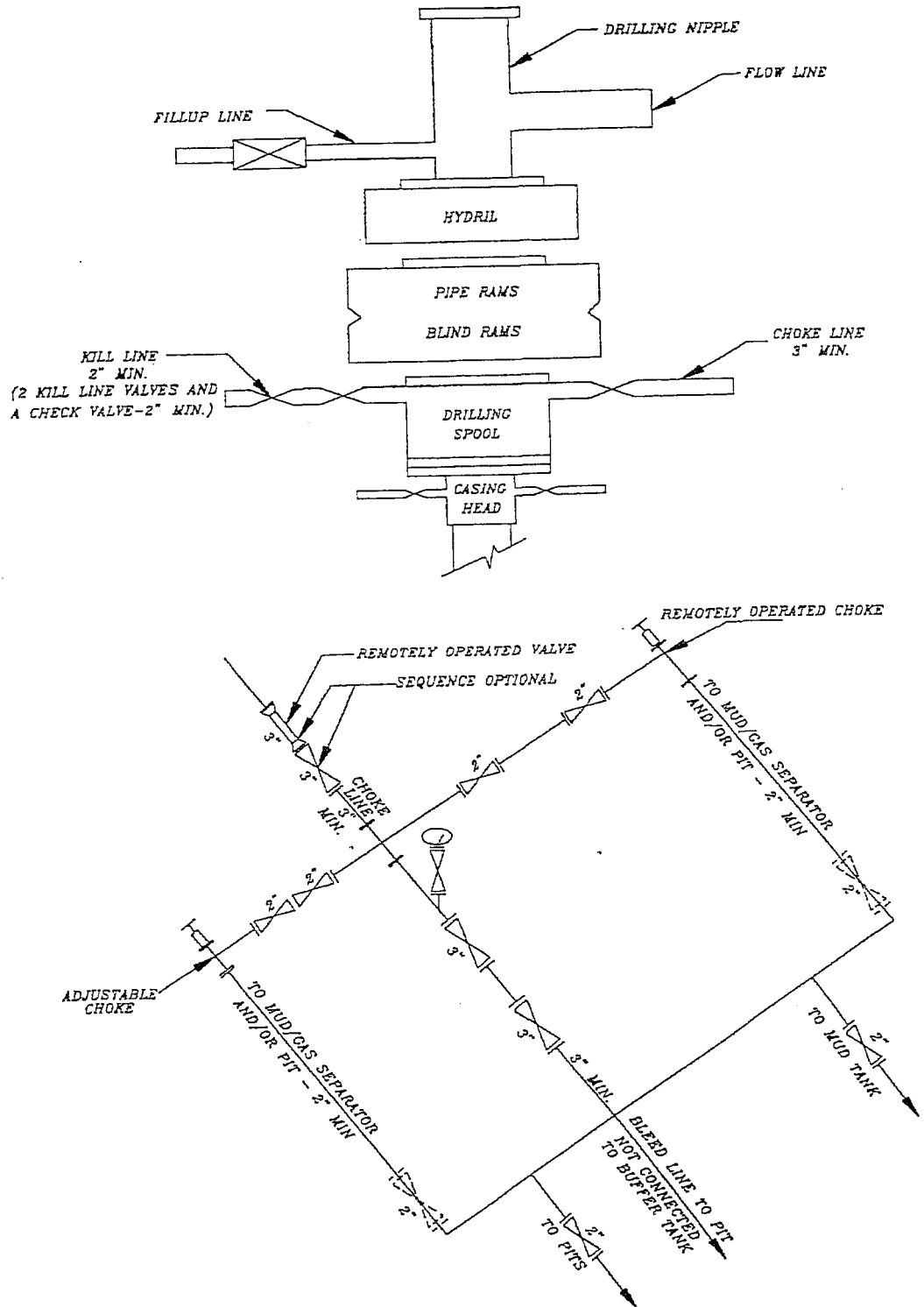
DATE: _____

DRILLING SUPERINTENDENT:

Randy Bayne

DATE: _____

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU #922-30L-T
NW/SW SEC 30, T9S, R22E
UINTAH COUNTY, UTAH
UTU-0463**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 50' +/- of access road is proposed.. Please refer to the attached Topo Map B.

Approximately 200' +/- of re-route access road is proposed Please refer to Topo Map B.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see the Natural Buttes Unit SOP.

Approximately 600' +/- of 4" steel pipeline is proposed pipeline. Please refer to the attached Please refer to Topo Map D

Approximately 1000' +/- of 4" steel re-route pipeline is proposed pipeline. Please refer to the attached Please refer to Topo Map D

Variances to Best Management Practices (BMPs) Requested:

The pipeline shall be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A 20 mil reserve pit liner with felt will be used. As discussed at the on-site inspection.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

Indian Ricegrass	10 lbs.
Needle and Thread Grass	10 lbs.
Crested Wheatgrass	2 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface Ownership:

The well pad and access road are located on lands owned by:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Other Information:

A Class III Archaeological Survey Report, has been performed and will be submitted when report becomes available.

The paleontological survey has been performed and will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying with the boundaries of the unit.

13. Lessee's or Operator's Representative & Certification:

Sheila Ucphego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM Nationwide Bond #WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Sheila Upchego

8/16/2007

Date

Kerr-McGee Oil & Gas Onshore LP
NBU #922-30L-T
SECTION 30, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 50' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 50' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.6 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-30L-T
LOCATED IN UTAH COUNTY, UTAH
SECTION 30, T9S, R22E, S.L.B.&M.

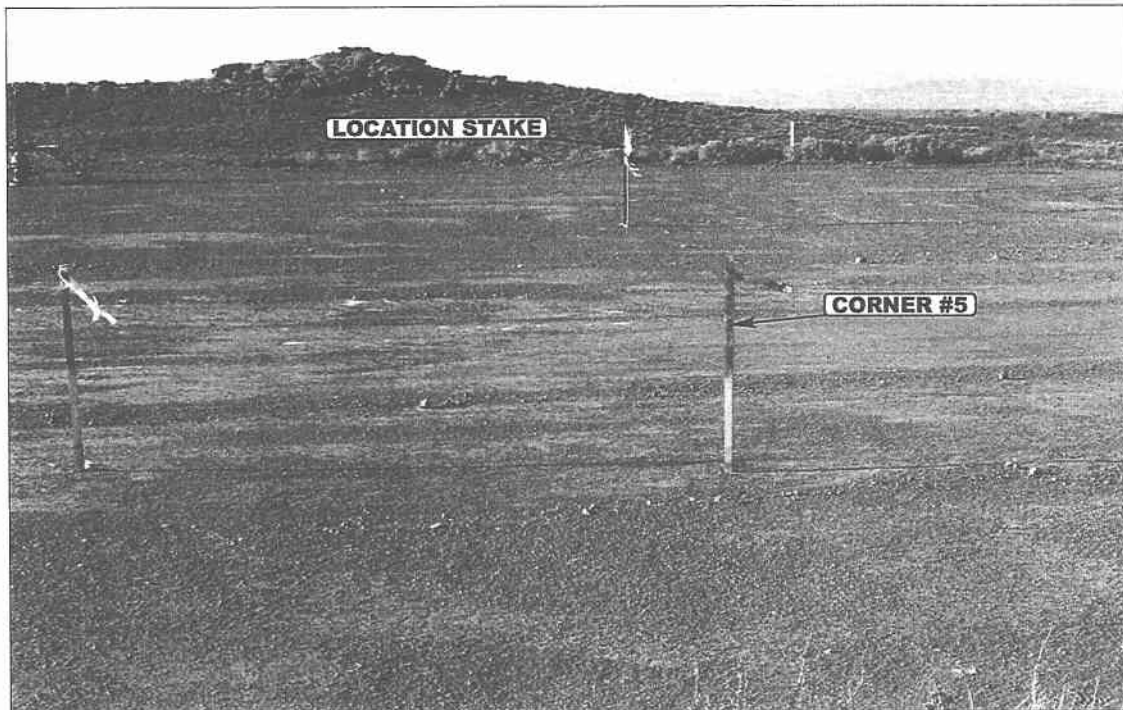


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

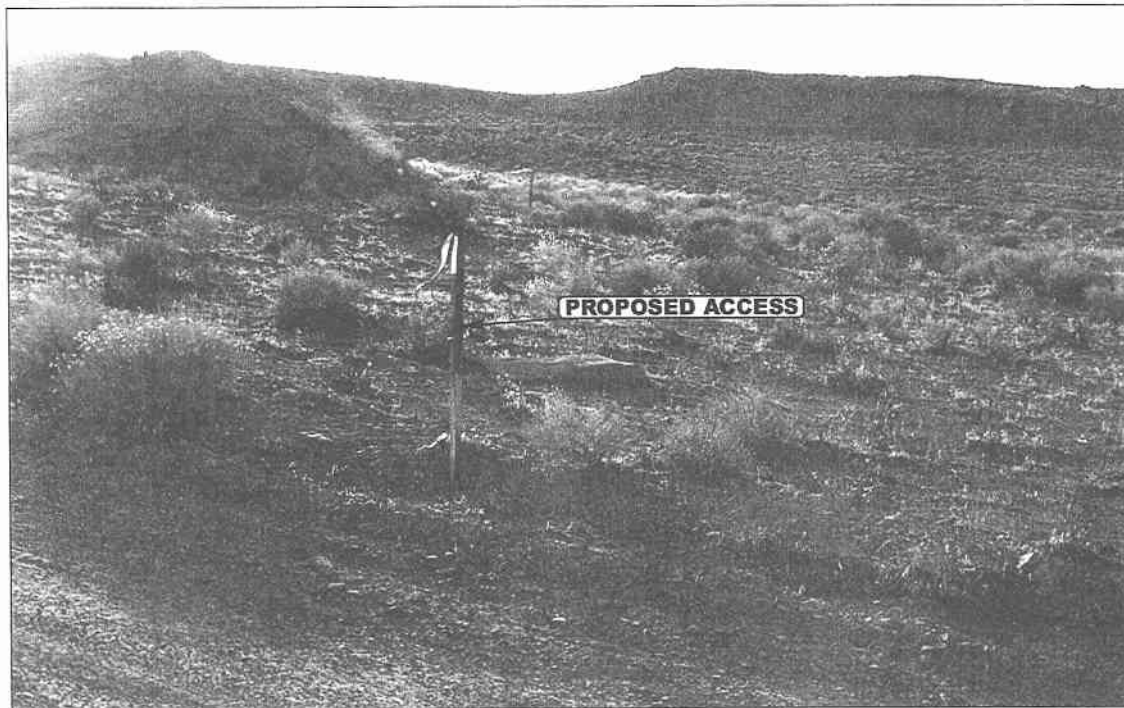


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

06 01 06
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K. DRAWN BY: C.P. REVISED: 11-01-06

LEGEND:

PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

NBU #922-30L-T

SECTION 30, T9S, R22E, S.L.B.&M.

2106' FSL 817' FWL



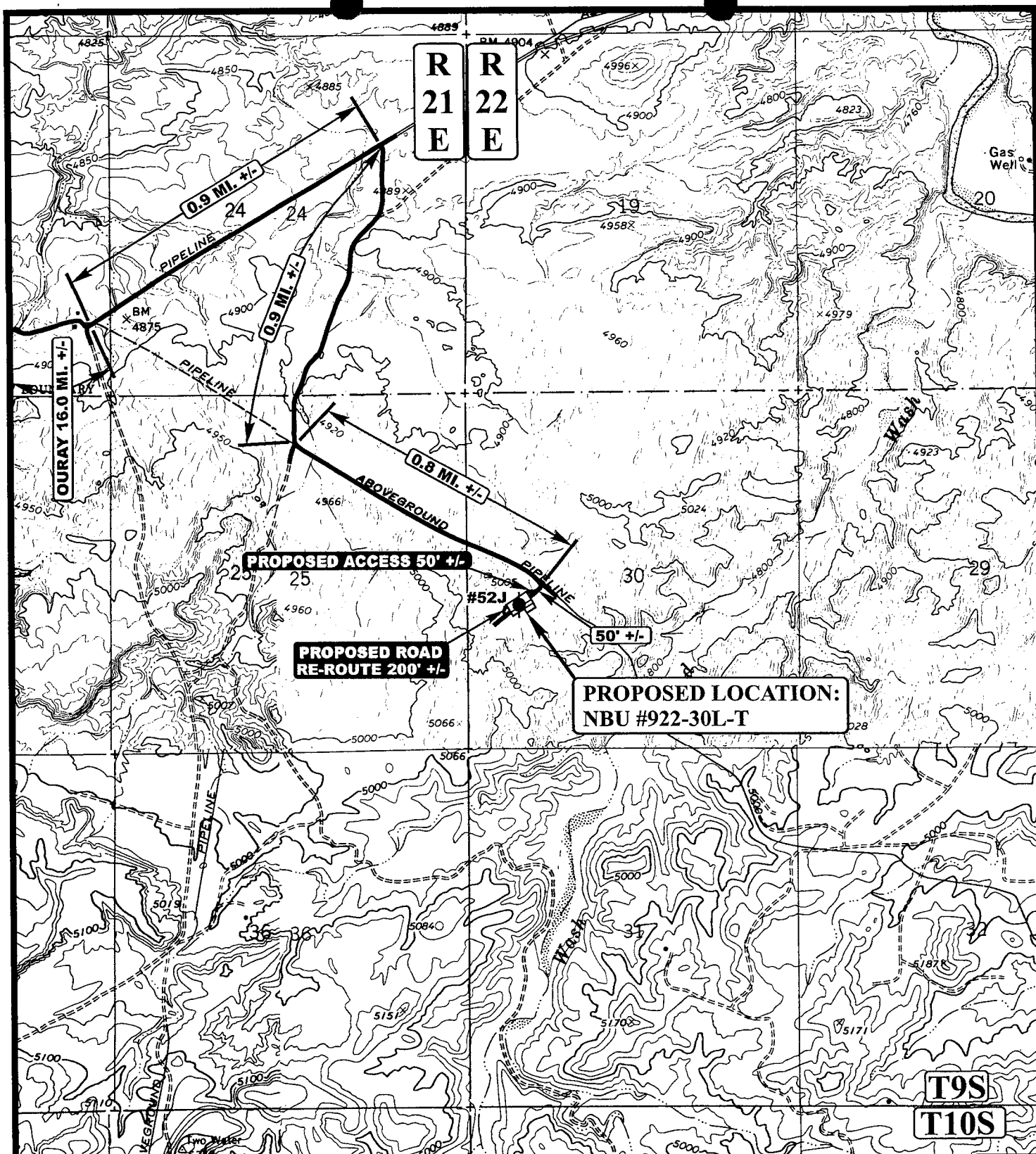
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

06	01	06
MONTH	DAY	YEAR

SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 11-01-06
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**A
TOPO**



LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- PROPOSED ROAD RE-ROUTE



Kerr-McGee Oil & Gas Onshore LP

NBU #922-30L-T
SECTION 30, T9S, R22E, S.L.B.&M.
2106' FSL 817' FWL



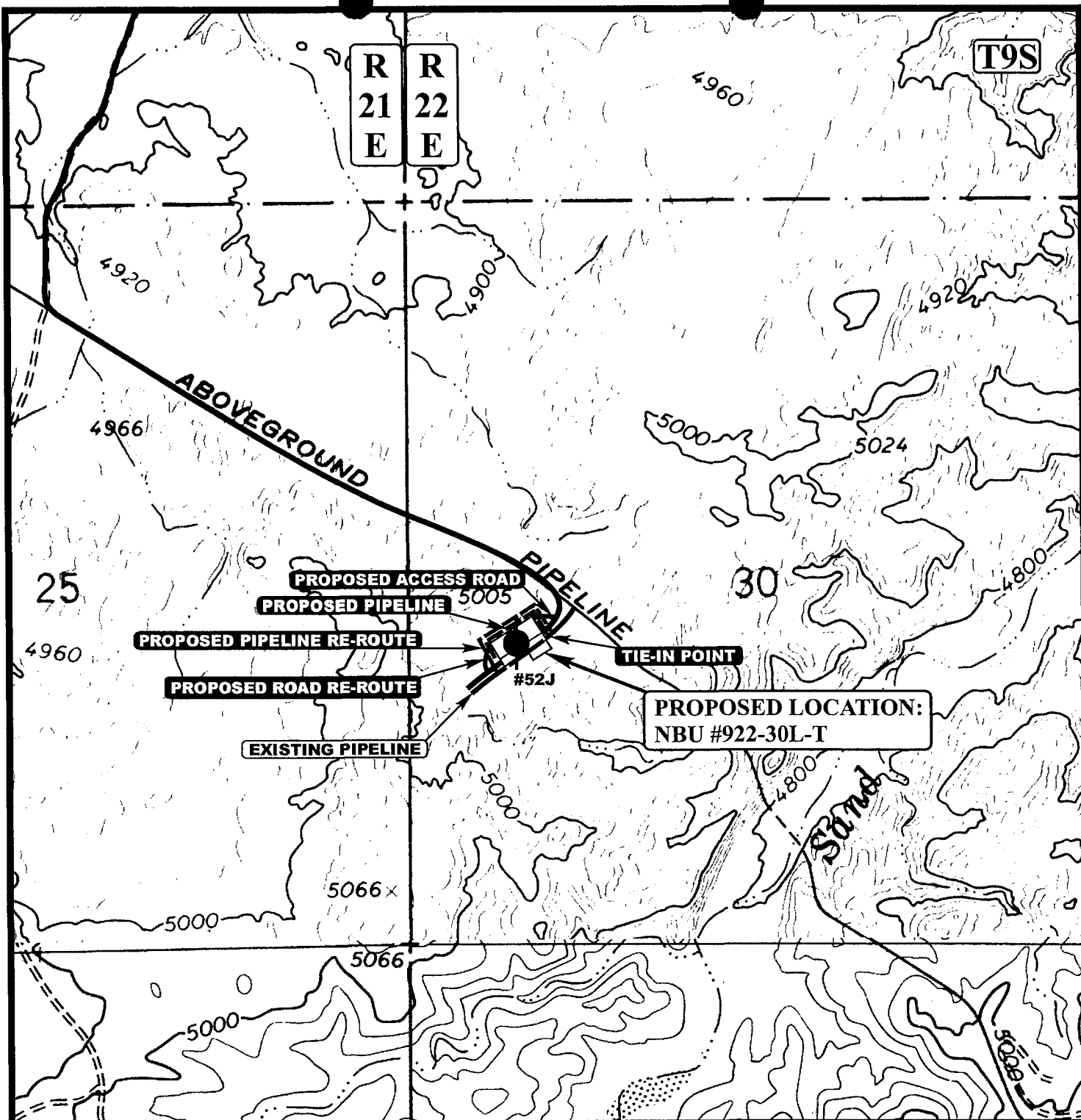
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

06 01 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 11-01-06





APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 1,000' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 600' +/-

LEGEND:

	PROPOSED ACCESS ROAD
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED PIPELINE RE-ROUTE



Kerr-McGee Oil & Gas Onshore LP

NBU #922-30L-T

SECTION 30, T9S, R22E, S.L.B.&M.

2106' FSL 817' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

06	01	06
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 11-01-06

D
TOPO

Kerr-McGee Oil & Gas Onshore LP

NBU #922-30L-T

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 30, T9S, R22E, S.L.B.&M.



PHOTO: VIEW OF TIE-IN POINT

CAMERA ANGLE: NORTHWESTERLY

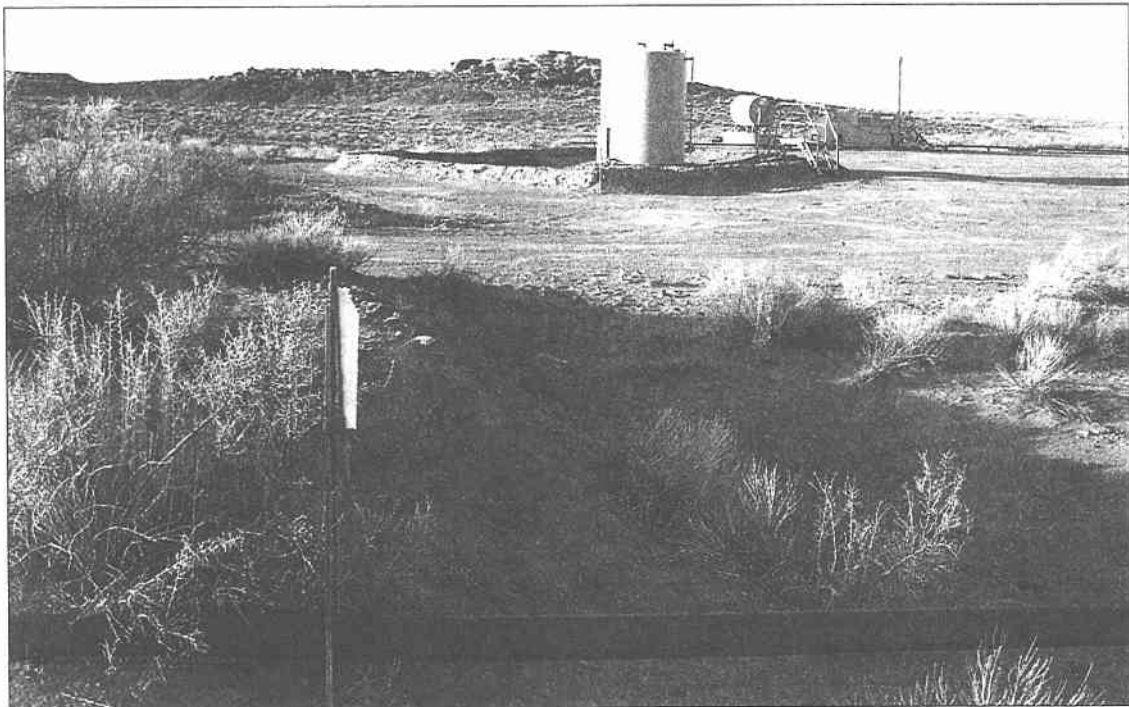


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: NORTHWESTERLY



UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

- Since 1964 -

PIPELINE PHOTOS

06 01 06
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: C.P.

REVISED: 11-01-06

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #922-30L-T
SECTION 30, T9S, R22E, S.L.B.&M.
2106' FSL 817' FWL

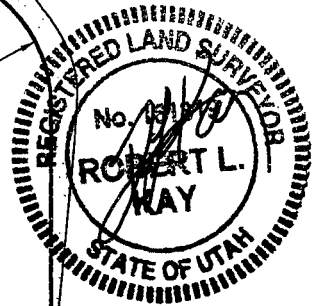
Approx.
Toe of
Fill Slope $F-5.6'$
El. 67.1'

Sta. 3+50

SCALE: 1" = 50'
DATE: 11-13-06
Drawn By: C.H.

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.



Round Corners
as Needed

Anchor

Anchor

Existing Pad

Existing Methonal
Tank

Existing
Separator

Existing
Separator

Existing
Pipeline

Approx.
Top of
Cut Slope

Pit Topsoil

El. 75.6'
 $C-12.9'$
(btm. pit)

Blopie Line

$C-0.6'$
El. 73.3'

GRADE
El. 72.7'

Sta. 1+50

$F-5.0'$
El. 67.7'

Anchor
TOILET

TRAILER

WATER
TANK

Sta. 0+50

Sta. 0+00

$F-7.2'$
El. 65.5'

Proposed Access
Road

FIGURE #1

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4972.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 4972.7'

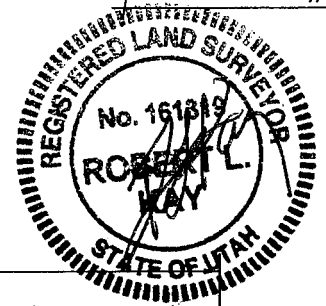
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

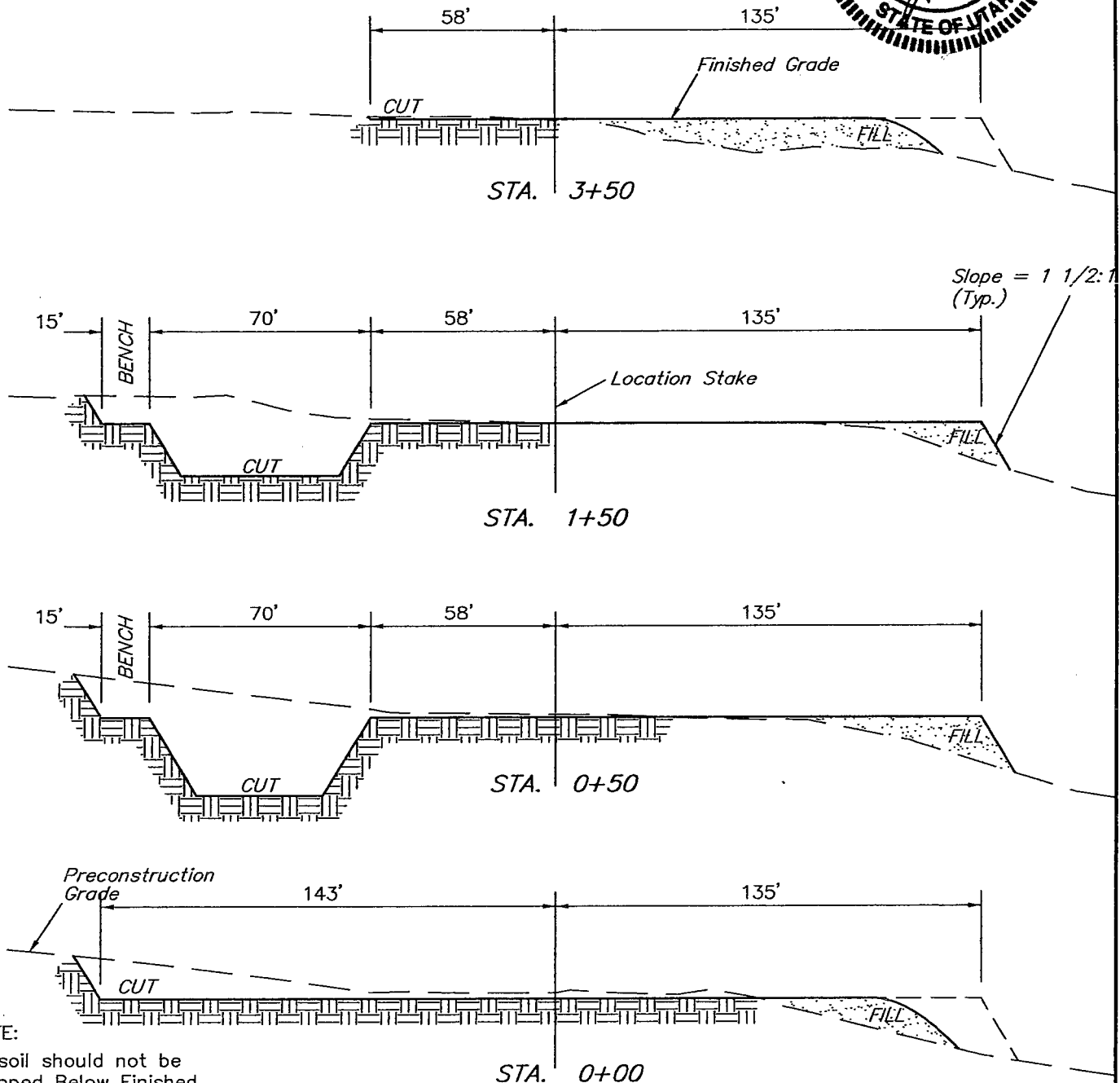
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #922-30L-T
SECTION 30, T9S, R22E, S.L.B.&M.
2106' FSL 817' FWL



1" = 20'
X-Section
Scale
1" = 50'
DATE: 11-13-06
Drawn By: C.H.



NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES
5% FOR COMPACTION

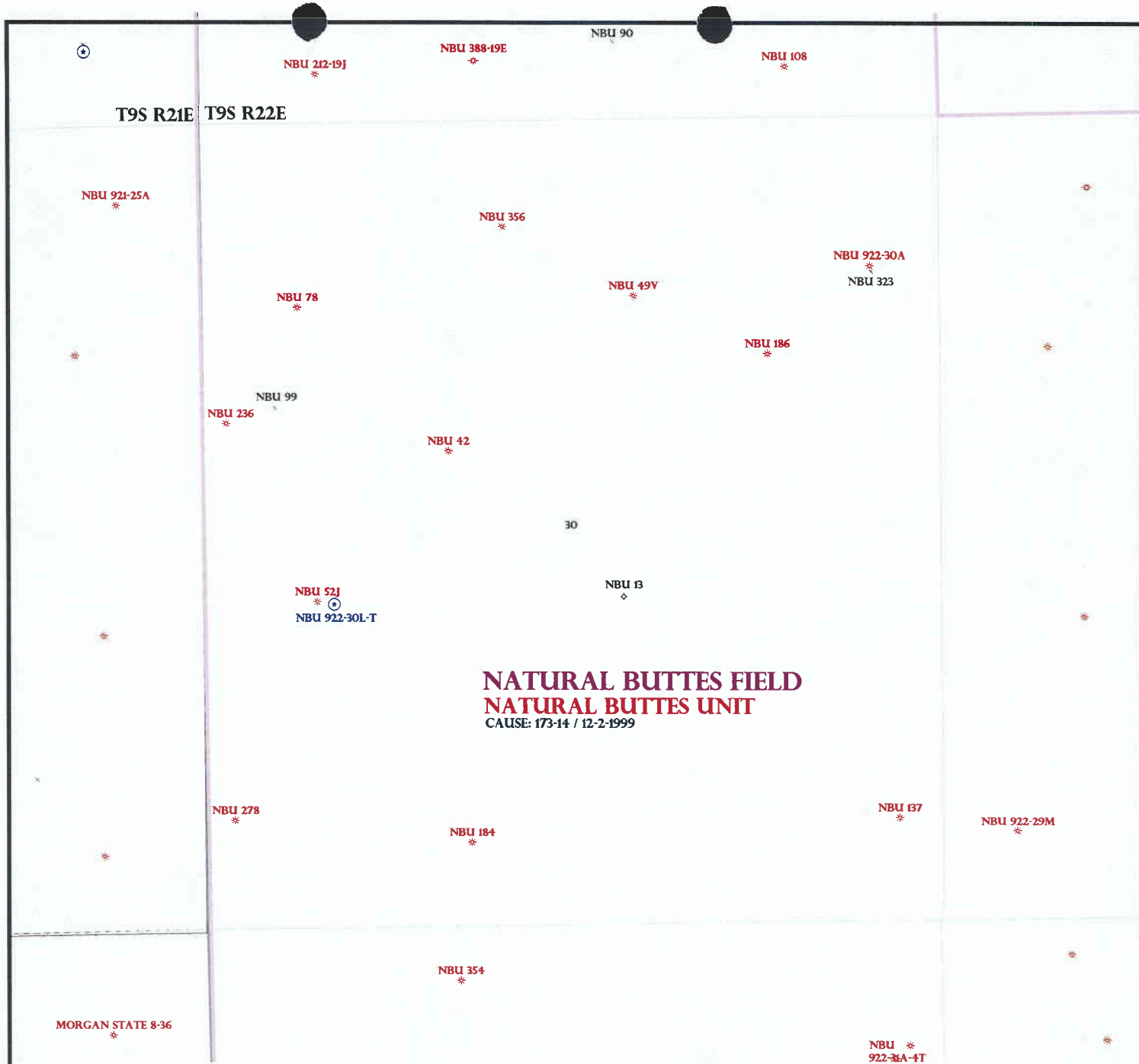
APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 280 Cu. Yds.
Remaining Location	= 4,360 Cu. Yds.
TOTAL CUT	= 4,640 CU.YDS.
FILL	= 2,560 CU.YDS.

EXCESS MATERIAL	= 2,080 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,670 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 410 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

STIPULATIONS: 1- Federal Approval



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 30 T.9S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
 ■ ABANDONED
 ■ ACTIVE
 ■ COMBINED
 ■ INACTIVE
 ■ PROPOSED
 ■ STORAGE
 ■ TERMINATED

Unit Status
 ■ EXPLORATORY
 ■ GAS STORAGE
 ■ NF PP OIL
 ■ NF SECONDARY
 ■ PENDING
 ■ PI OIL
 ■ PP GAS
 ■ PP GEOTHERML
 ■ PP OIL
 ■ SECONDARY
 ■ TERMINATED

Wells Status

✂ GAS INJECTION
 ✖ GAS STORAGE
 ✖ LOCATION ABANDONED
 ⊕ NEW LOCATION
 ⊕ PLUGGED & ABANDONED
 ✖ PRODUCING GAS
 ✖ PRODUCING OIL
 ✖ SHUT-IN GAS
 ✖ SHUT-IN OIL
 ✖ TEMP. ABANDONED
 ○ TEST WELL
 △ WATER INJECTION
 ⊕ WATER SUPPLY
 ⊕ WATER DISPOSAL
 ⊕ DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON
 DATE: 27-AUGUST-2007

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

August 29, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2007 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ Wasatch/MesaVerde)

43-047-39540	NBU 922-30L-T	Sec 30 T09S R22E 2106 FSL 0817 FWL
43-047-39542	NBU 1021-14B	Sec 14 T10S R21E 0439 FNL 2355 FEL
43-047-39543	NBU 1021-14F	Sec 14 T10S R21E 2404 FNL 2387 FWL
43-047-39544	NBU 1021-150	Sec 15 T10S R21E 1127 FSL 2304 FEL
43-047-39545	NBU 1021-15K	Sec 15 T10S R21E 2277 FSL 2041 FWL
43-047-39546	NBU 1021-15L	Sec 15 T10S R21E 2188 FSL 0783 FWL
43-047-39547	NBU 1021-15F	Sec 15 T10S R21E 2164 FNL 1915 FWL
43-047-39548	NBU 1021-15J	Sec 15 T10S R21E 2361 FSL 2372 FEL
43-047-39563	NBU 1021-15P	Sec 15 T10S R21E 1214 FSL 1262 FEL
43-047-39564	NBU 1021-22C	Sec 22 T10S R21E 0902 FNL 2194 FWL
43-047-39549	NBU 1021-22K	Sec 22 T10S R21E 2088 FSL 2006 FWL
43-047-39550	NBU 1021-22A	Sec 22 T10S R21E 0668 FNL 0469 FEL
43-047-39551	NBU 1021-22L	Sec 22 T10S R21E 2114 FSL 0725 FWL
43-047-39565	NBU 1021-22D	Sec 22 T10S R21E 0769 FNL 0641 FWL
43-047-39566	NBU 1021-22E	Sec 22 T10S R21E 2000 FNL 0860 FWL
43-047-39567	NBU 1021-23E	Sec 23 T10S R21E 2201 FNL 0846 FWL
43-047-39569	NBU 1021-23B	Sec 23 T10S R21E 0175 FNL 2391 FEL
43-047-39557	NBU 1021-23K	Sec 23 T10S R21E 2021 FSL 2152 FWL
43-047-39558	NBU 1021-23N	Sec 23 T10S R21E 0699 FSL 2196 FWL
43-047-39559	NBU 1021-23D	Sec 23 T10S R21E 0065 FNL 0460 FWL
43-047-39560	NBU 1021-23L	Sec 23 T10S R21E 2126 FSL 1227 FWL

43-047-39570	NBU	1021-23C	Sec 23	T10S	R21E	0567	FSL	2203	FWL
43-047-39572	NBU	1021-23J	Sec 23	T10S	R21E	1906	FSL	2167	FEL
43-047-39574	NBU	1021-23M	Sec 23	T10S	R21E	0233	FSL	0552	FWL
43-047-39575	NBU	1021-25J	Sec 25	T10S	R21E	1621	FSL	1890	FEL
43-047-39561	NBU	1021-25K	Sec 25	T10S	R21E	1848	FSL	2394	FWL
43-047-39579	NBU	1021-26E	Sec 26	T10S	R21E	1706	FNL	0992	FWL
43-047-39580	NBU	1021-26D	Sec 26	T10S	R21E	0695	FNL	0614	FWL
43-047-39578	NBU	1021-25F	Sec 25	T10S	R21E	2477	FNL	2323	FWL
43-047-39541	NBU	1021-3I	Sec 03	T10S	R21E	1371	FSL	1121	FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:8-29-07



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

August 29, 2007

Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Ut 84078


Re: NBU 922-30L-T Well, 2106' FSL, 817' FWL, NW SW, Sec. 30, T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39540.

Sincerely,

 Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore LP
Well Name & Number NBU 922-30L-T
API Number: 43-047-39540
Lease: UTU-0463

Location: NW SW Sec. 30 T. 9 South R. 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779 PHONE NUMBER: (720) 929-6226		7. UNIT or CA AGREEMENT NAME: 891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2106' FSL & 817' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 30 9S 22E		8. WELL NAME and NUMBER: NBU 922-30L-T
		9. API NUMBER: 4304739540
		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
		COUNTY: Uintah
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: APD Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension of this APD in order to complete drilling operations. Utah Division of Oil, Gas, and Mining initially approved this APD on August 29, 2007.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 08-12-08
By: [Signature]

COPY SENT TO OPERATOR

Date: 8-14-2008
Initials: KS

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst I
SIGNATURE [Signature] DATE 8/11/2008

(This space for State use only)

RECEIVED
AUG 12 2008

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739540
Well Name: NBU 922-30L-T
Location: NWSW 2106' FSL & 817' FWL, Sec. 30, T9S, R22E
Company Permit Issued to: Kerr-McGee Oil & Gas Onshore, LP
Date Original Permit Issued: 8/29/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

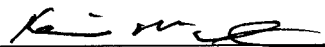
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐



Signature

8/11/2008

Date

Title: Regulatory Analyst I

Representing: Kerr-McGee Oil & Gas Onshore, LP

RECEIVED

AUG 12 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L-T			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2106 FSL 0817 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000			
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/31/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____ </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.					
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining </div>		Date: July 29, 2009 By:			
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 7/28/2009					

RECEIVED July 28, 2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047395400000

API: 43047395400000

Well Name: NBU 922-30L-T

Location: 2106 FSL 0817 FWL QTR NWSW SEC 30 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/29/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 7/28/2009

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 29, 2009

By: 

RECEIVED July 28, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L-T
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2106 FSL 0817 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/28/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
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Approved by the
Utah Division of
Oil, Gas and Mining

Date: August 31, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 8/27/2010



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047395400000

API: 43047395400000

Well Name: NBU 922-30L-T

Location: 2106 FSL 0817 FWL QTR NWSW SEC 30 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/29/2007

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- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 8/27/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 31, 2010

By: 

RECEIVED August 27, 2010

<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463</div>									
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</div> <div>7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES</div>									
<div>1. TYPE OF WELL Gas Well</div>		<div>8. WELL NAME and NUMBER: NBU 922-30L-T</div>									
<div>2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.</div>		<div>9. API NUMBER: 43047395400000</div>									
<div>3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</div>		<div>PHONE NUMBER: 720 929-6515 Ext</div>									
<div>4. LOCATION OF WELL FOOTAGES AT SURFACE: 2106 FSL 0817 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S</div>		<div>9. FIELD and POOL or WILDCAT: NATURAL BUTTES</div> <div>COUNTY: UINTAH</div> <div>STATE: UTAH</div>									
<div>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div> <table border="1"> <thead> <tr> <th>TYPE OF SUBMISSION</th> <th colspan="3">TYPE OF ACTION</th> </tr> </thead> <tbody> <tr> <td> <div><input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/15/2011</div> <div><input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:</div> <div><input type="checkbox"/> SPUD REPORT Date of Spud:</div> <div><input type="checkbox"/> DRILLING REPORT Report Date:</div> </td> <td> <div><input type="checkbox"/> ACIDIZE</div> <div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div><input type="checkbox"/> CHANGE WELL STATUS</div> <div><input type="checkbox"/> DEEPEN</div> <div><input type="checkbox"/> OPERATOR CHANGE</div> <div><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div><input type="checkbox"/> TUBING REPAIR</div> <div><input type="checkbox"/> WATER SHUTOFF</div> <div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> </td> <td> <div><input type="checkbox"/> ALTER CASING</div> <div><input type="checkbox"/> CHANGE TUBING</div> <div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div><input type="checkbox"/> FRACTURE TREAT</div> <div><input type="checkbox"/> PLUG AND ABANDON</div> <div><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div><input type="checkbox"/> VENT OR FLARE</div> <div><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div><input type="checkbox"/> OTHER</div> </td> <td> <div><input type="checkbox"/> CASING REPAIR</div> <div><input checked="" type="checkbox"/> CHANGE WELL NAME</div> <div><input type="checkbox"/> CONVERT WELL TYPE</div> <div><input type="checkbox"/> NEW CONSTRUCTION</div> <div><input type="checkbox"/> PLUG BACK</div> <div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div><input type="checkbox"/> TEMPORARY ABANDON</div> <div><input type="checkbox"/> WATER DISPOSAL</div> <div><input type="checkbox"/> APD EXTENSION</div> <div>OTHER: <input type="text"/></div> </td> </tr> </tbody> </table>				TYPE OF SUBMISSION	TYPE OF ACTION			<div><input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/15/2011</div> <div><input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:</div> <div><input type="checkbox"/> SPUD REPORT Date of Spud:</div> <div><input type="checkbox"/> DRILLING REPORT Report Date:</div>	<div><input type="checkbox"/> ACIDIZE</div> <div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div><input type="checkbox"/> CHANGE WELL STATUS</div> <div><input type="checkbox"/> DEEPEN</div> <div><input type="checkbox"/> OPERATOR CHANGE</div> <div><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div><input type="checkbox"/> TUBING REPAIR</div> <div><input type="checkbox"/> WATER SHUTOFF</div> <div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div>	<div><input type="checkbox"/> ALTER CASING</div> <div><input type="checkbox"/> CHANGE TUBING</div> <div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div><input type="checkbox"/> FRACTURE TREAT</div> <div><input type="checkbox"/> PLUG AND ABANDON</div> <div><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div><input type="checkbox"/> VENT OR FLARE</div> <div><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div><input type="checkbox"/> OTHER</div>	<div><input type="checkbox"/> CASING REPAIR</div> <div><input checked="" type="checkbox"/> CHANGE WELL NAME</div> <div><input type="checkbox"/> CONVERT WELL TYPE</div> <div><input type="checkbox"/> NEW CONSTRUCTION</div> <div><input type="checkbox"/> PLUG BACK</div> <div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div><input type="checkbox"/> TEMPORARY ABANDON</div> <div><input type="checkbox"/> WATER DISPOSAL</div> <div><input type="checkbox"/> APD EXTENSION</div> <div>OTHER: <input type="text"/></div>
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<div>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</div> <div>The Operator respectfully requests to change the well name for this well. The new well name will be NBU 922-30L1CS. Thank you.</div> <div>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</div>											
<div>NAME (PLEASE PRINT) Andy Lytle</div>		<div>PHONE NUMBER 720 929-6100</div>									
<div>SIGNATURE N/A</div>		<div>TITLE Regulatory Analyst</div> <div>DATE 4/15/2011</div>									

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 0783 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/12/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="color: red; font-weight: bold;"> Approved by the Utah Division of Oil, Gas and Mining </div> <div style="margin-top: 10px;"> Date: 07/12/2011 By: </div>		
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 7/12/2011		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047395400000

API: 43047395400000

Well Name: NBU 922-30L1CS

Location: 2085 FSL 0783 FWL QTR NWSW SEC 30 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/29/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

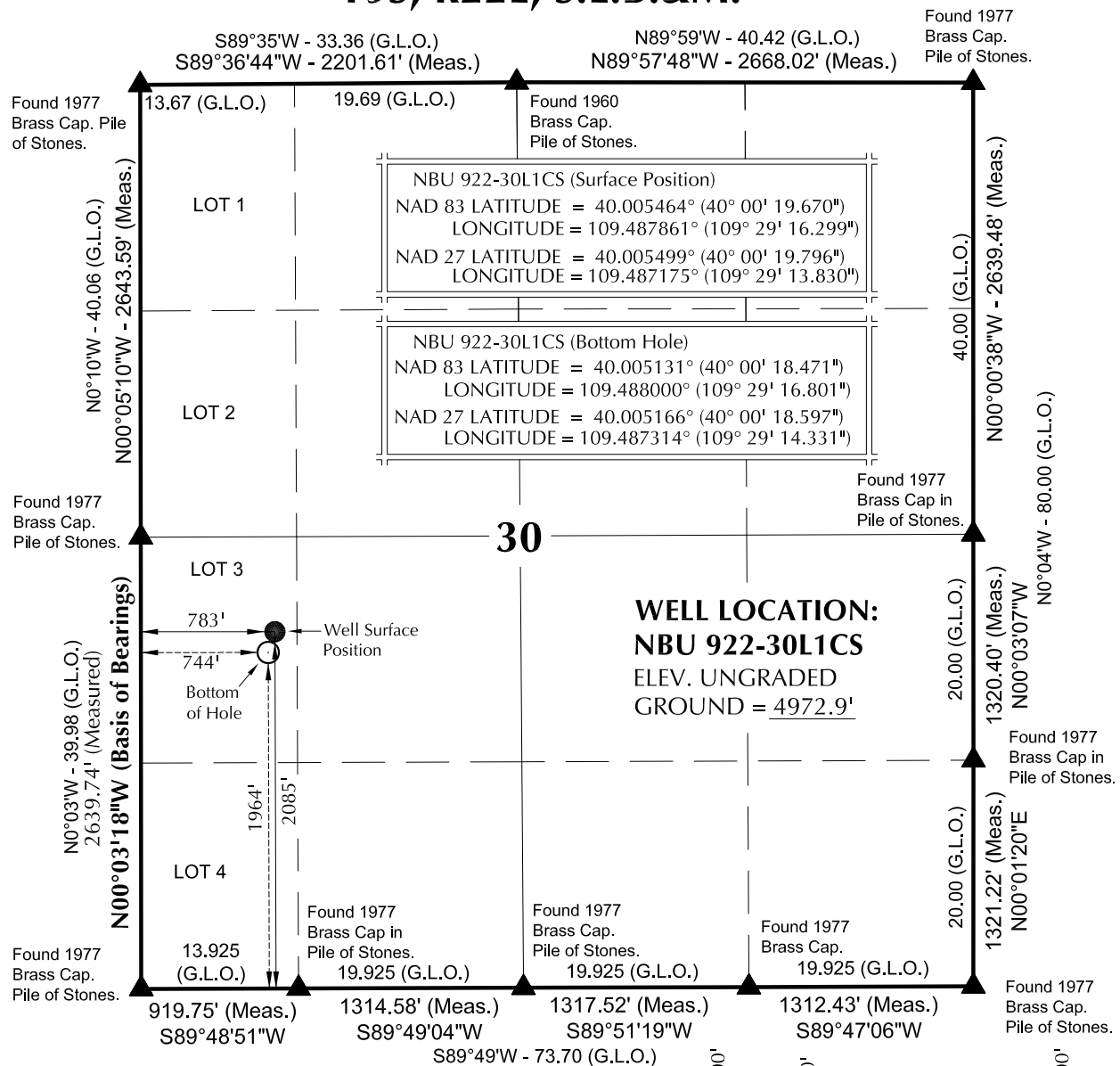
Signature: Gina Becker

Date: 7/12/2011

Title: Regulatory Analyst II **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Jul. 12, 2011

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above captioned well location was originally approved by UDOGM on 08/27/2007. Kerr-McGee Oil & Gas, L.P. (Kerr-McGee) has revised the Survey Plats, the Drilling Program, the Directional Drilling Plan and the Surface Use Plan of Operations. Kerr-McGee respectfully requests authorization to change the originally permitted straight hole wellbore (2106' FSL & 817' FWL) to a directional well. The new surface hole location will be 2085' FSL & 783' FWL and the bottom hole location will be 1964' FSL & 744' FWL. Please see the attachment reflecting the requested changes. Thank you.					
Approved by the Utah Division of Oil, Gas and Mining Date: 08/01/2011 By:					
NAME (PLEASE PRINT) Laura Abrams		PHONE NUMBER 720 929-6356			
SIGNATURE N/A		TITLE Regulatory Analyst II DATE 7/5/2011			

T9S, R22E, S.L.B.&M.**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
 No. 6028691
 JOHN R. SAUGH
 STATE OF UTAH
 06-10-11

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 922-30L

NBU 922-30L1CS
WELL PLAT

1964' FSL, 744' FWL (Bottom Hole)
LOT 3 OF SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.

CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

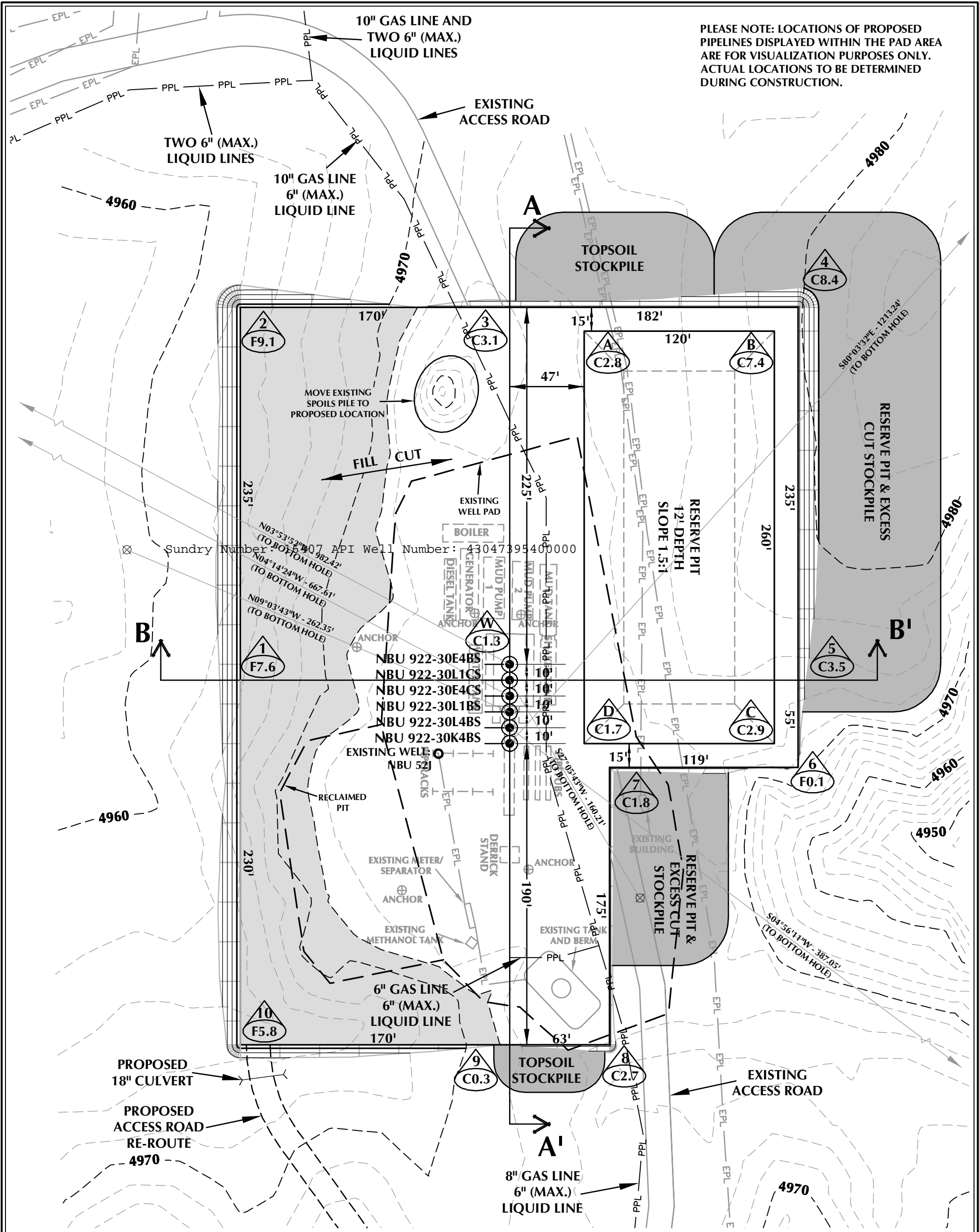
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 07-16-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 02-08-11	DRAWN BY: E.M.S.	1
SCALE: 1" = 1000'	Date Last Revised: 06-10-11 C.T.C.	1 OF 18

RECEIVED Jul. 05, 2011



WELL PAD - NBU 922-30L DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4972.7'
FINISHED GRADE ELEVATION = 4971.4'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.59 ACRES
TOTAL DISTURBANCE AREA = 4.60 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30L

WELL PAD - LOCATION LAYOUT
NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS,
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 9,244 C.Y.
TOTAL FILL FOR WELL PAD = 8,003 C.Y.
TOPSOIL @ 6" DEPTH = 2,043 C.Y.
EXCESS MATERIAL = 1,241 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

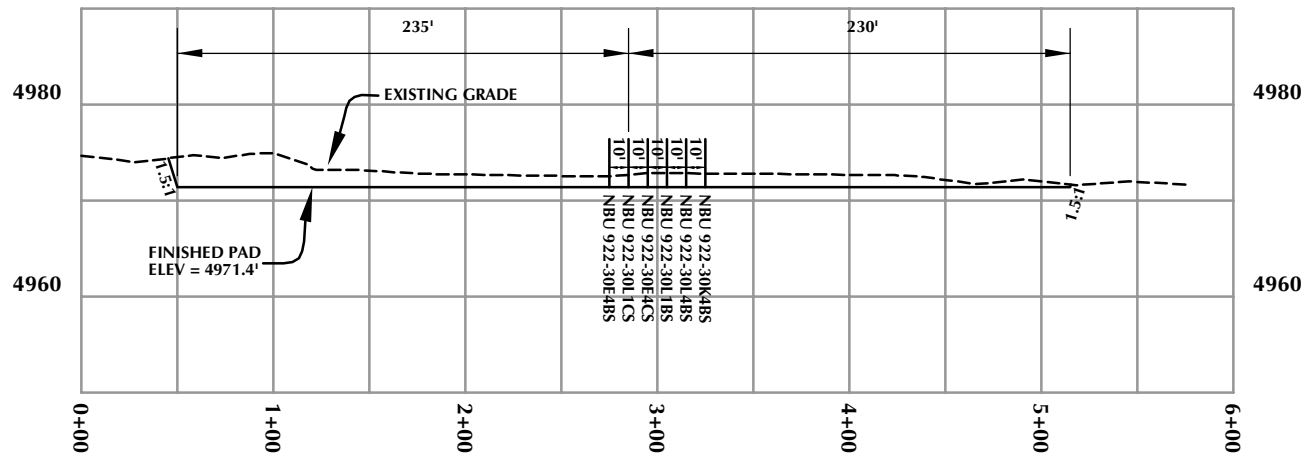
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



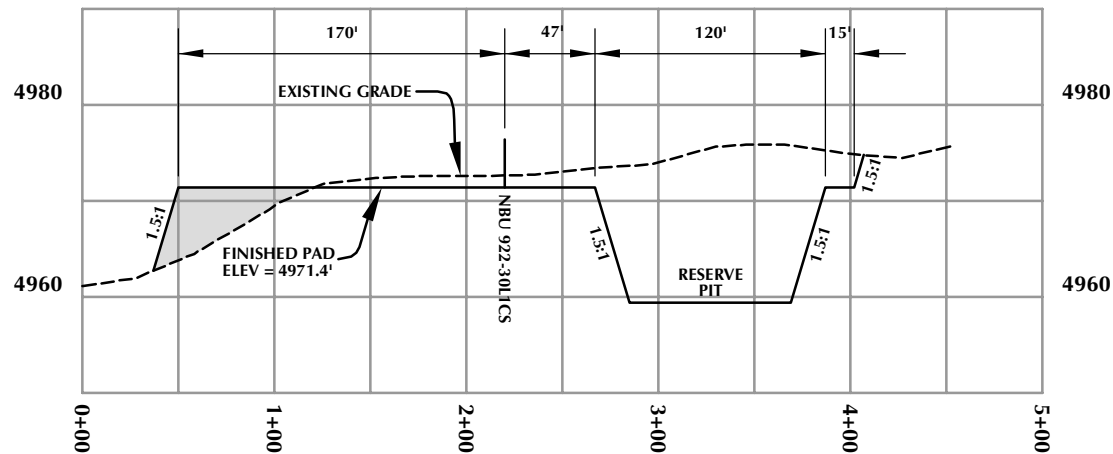
HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 1/14/11 SHEET NO:

REVISED: TAR 5/13/11 8 8 OF 18



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30L

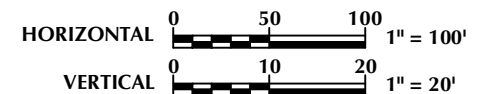
WELL PAD - CROSS SECTIONS
NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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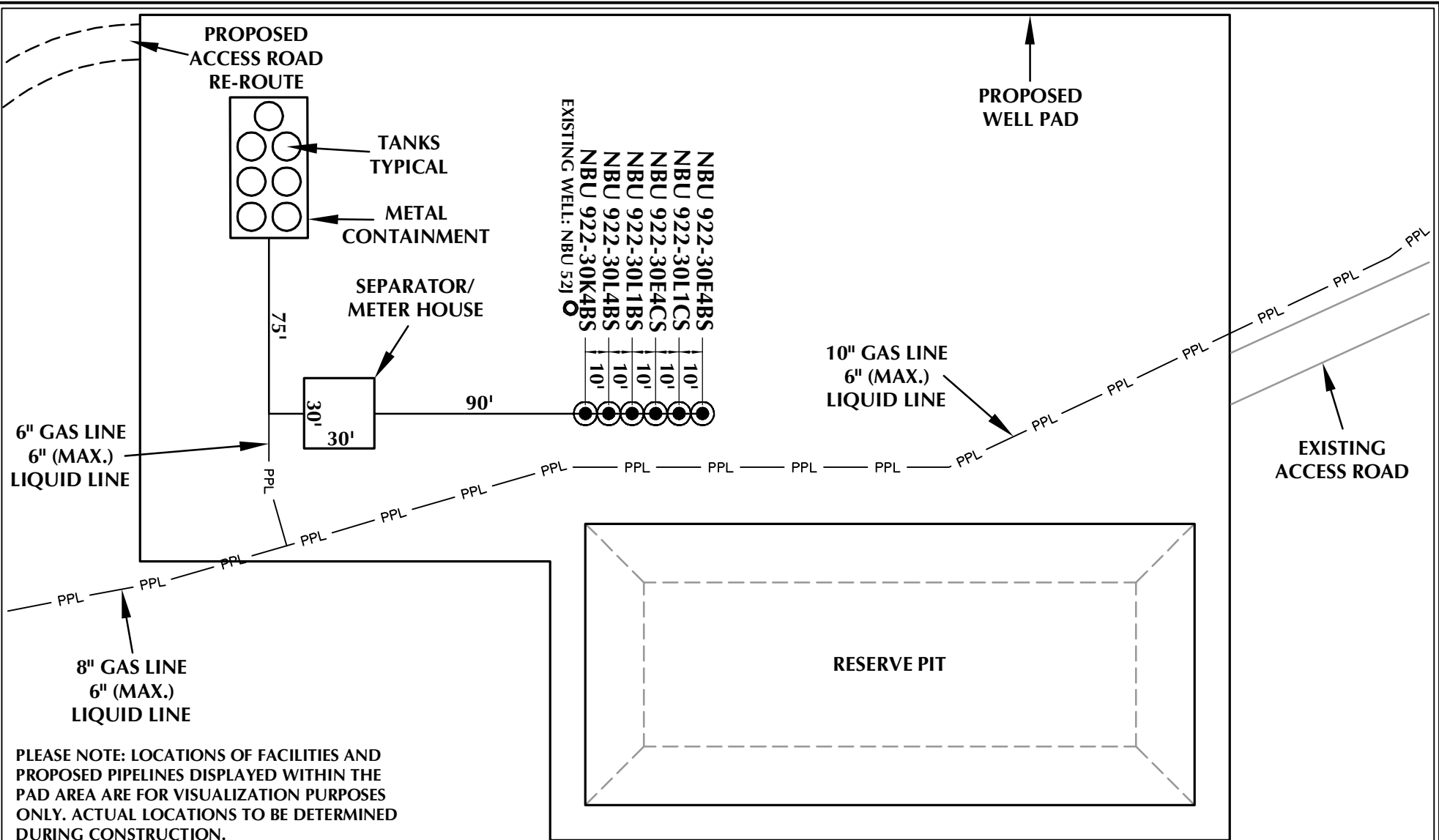
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209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'	Date: 1/14/11	SHEET NO:
REVISED:	TAR 5/13/11	9 9 OF 18

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PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30L

WELL PAD - FACILITIES DIAGRAM
NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60' Date: 1/14/11
REVISED: TAR 5/13/11

SHEET NO:
10 10 OF 18

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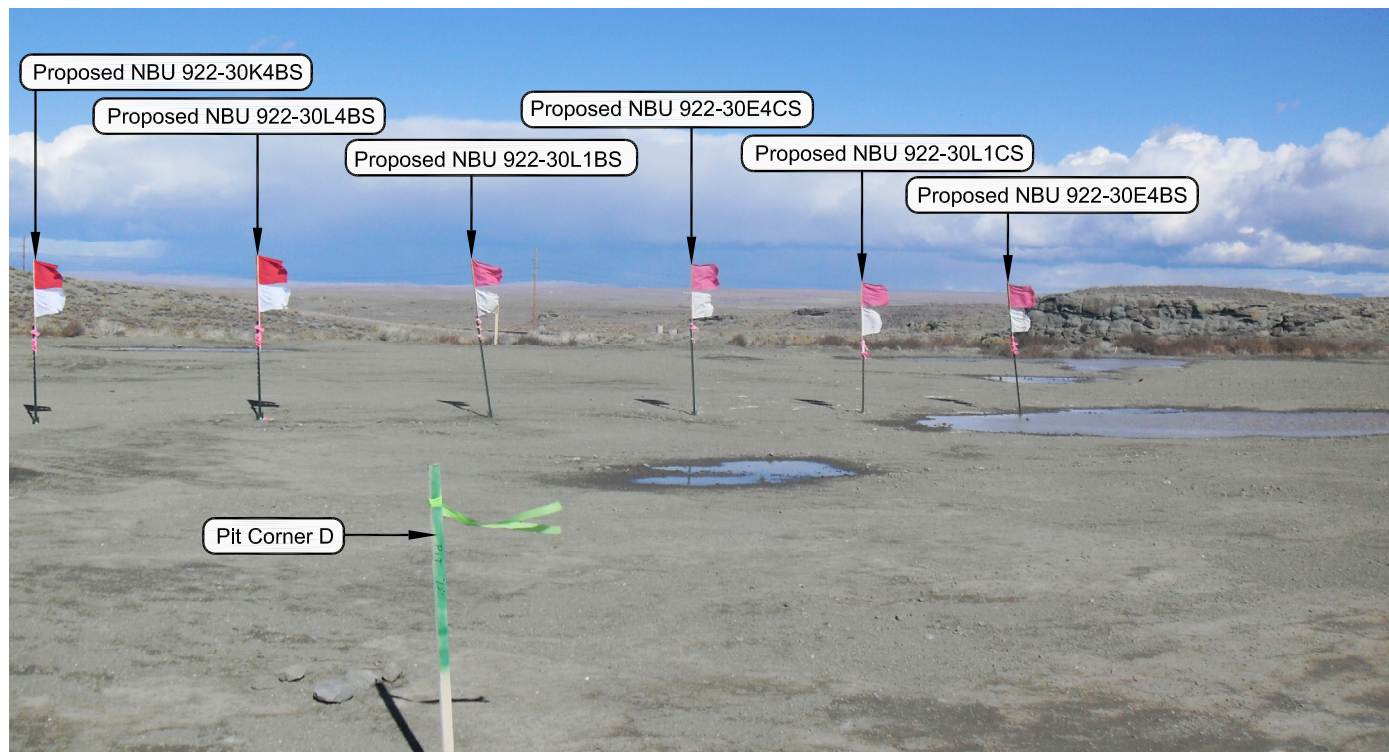


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30L

LOCATION PHOTOS
NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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TIMBERLINE

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ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN:
07-16-10

PHOTOS TAKEN BY: M.S.B.

SHEET NO:

DATE DRAWN:
07-28-10

DRAWN BY: K.O.B.

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Date Last Revised: 02-08-11 E.M.S.

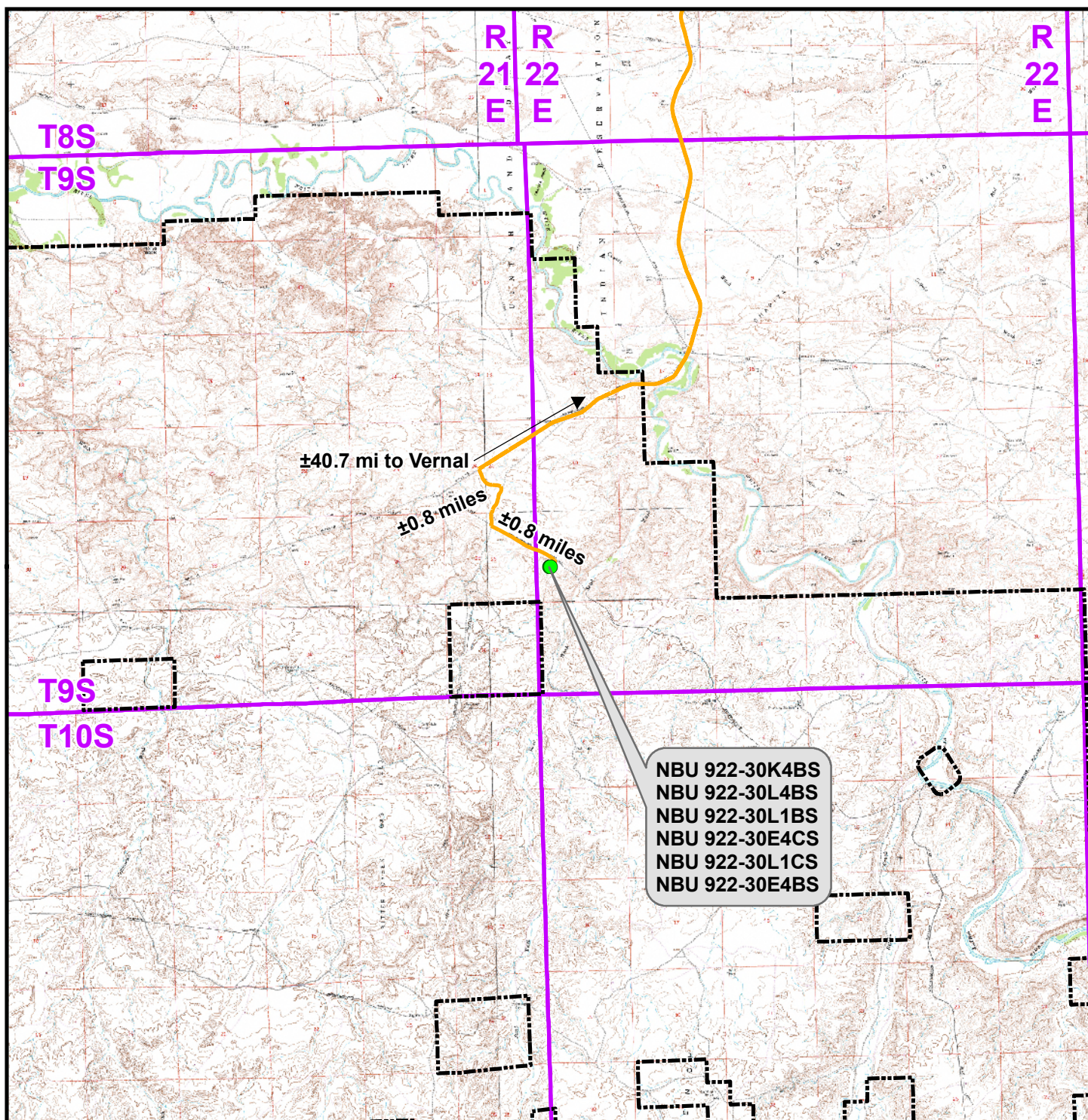
11 OF 18

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**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-30L
WELLS – NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
Section 30, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.2 miles to a service road to the southeast. Exit left and proceed in a southeasterly, then southerly direction along the service road approximately 0.8 miles to a second service road to the southeast. Exit left and proceed in a southeasterly direction along the second service road approximately 0.8 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 42.3 miles in a southerly direction.

**Legend**

- Proposed Well Location Natural Buttes Unit Boundary
— Access Route - Proposed

Distance From Well Pad - NBU 922-30L To Unit Boundary: ±2,237ft

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30L**TOPO A**

NBU 922-30K4BS, NBU 922-30L4BS,
 NBU 922-30L1BS, NBU 922-30E4CS,
 NBU 922-30L1CS & NBU 922-30E4BS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

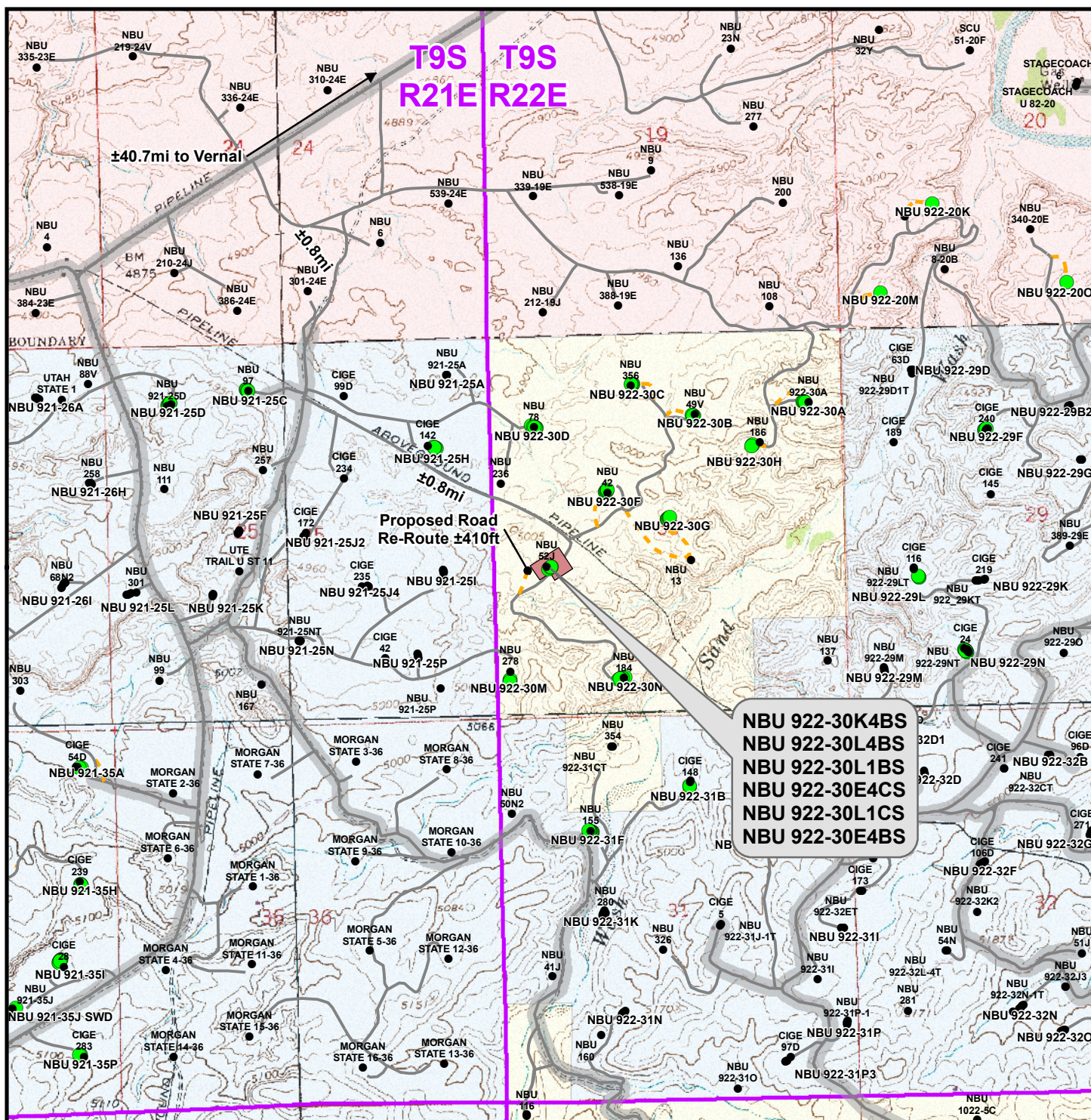


CONSULTING, LLC
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Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	12 12 of 18
Revised: TL	Date: 21 Feb 2011	

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**Legend**

- | | | | | | |
|--|--|---|---|---|---|
| ● Well - Proposed | Well Pad | --- Road - Proposed | County Road | Bureau of Land Management | State |
| ● Well - Existing | --- Road - Existing | | | Indian Reservation | Private |

Total Proposed Road Length: ±410ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

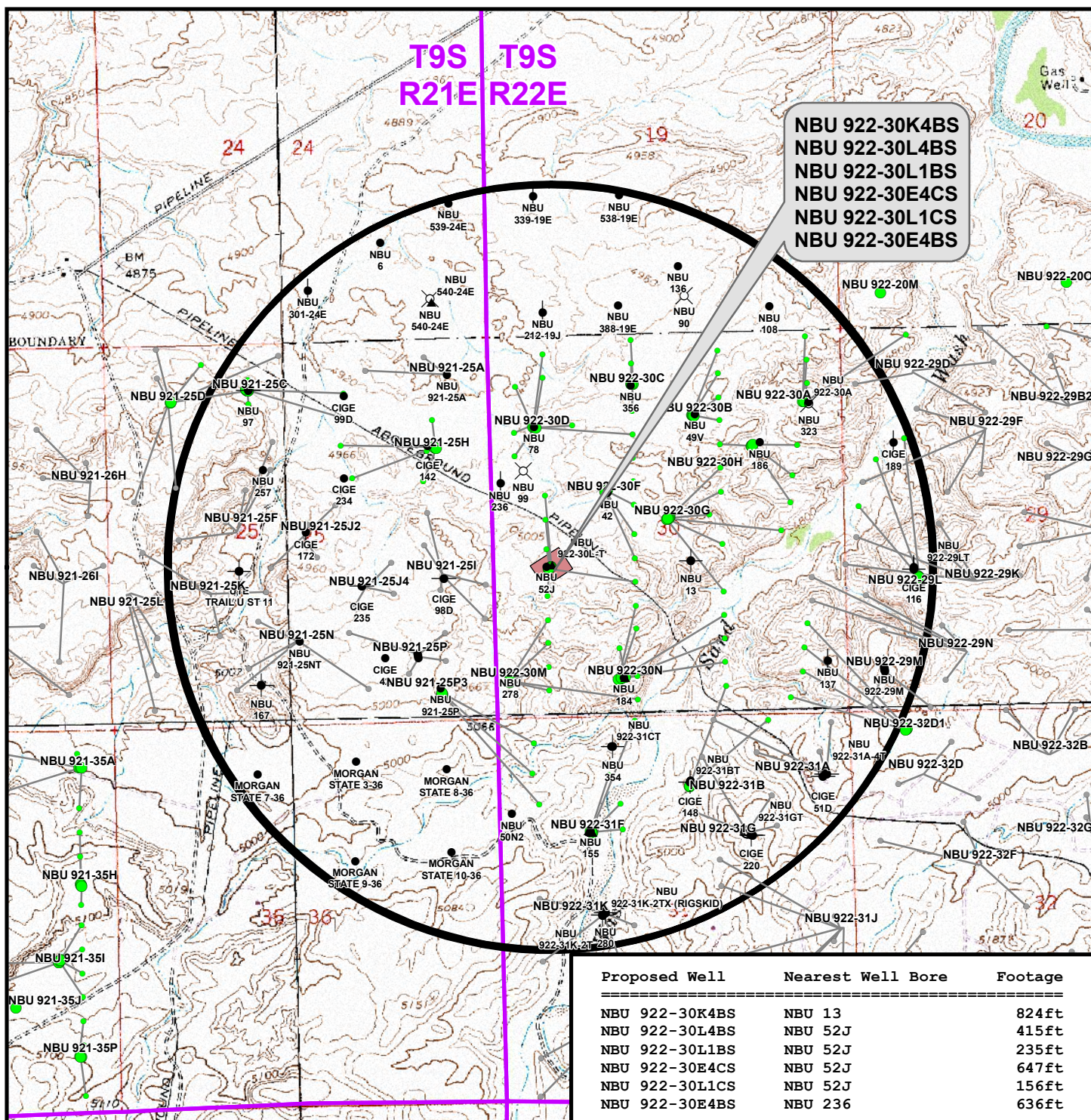
WELL PAD - NBU 922-30L**TOPO B**

NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft		NAD83 USP Central	
Drawn: TL	Date: 14 Jan 2011	Sheet No: 13 13 of 18	
Revised: TL	Date: 21 Feb 2011		

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**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- ★ Active
- ☉ Spudded (Drilling commenced: Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

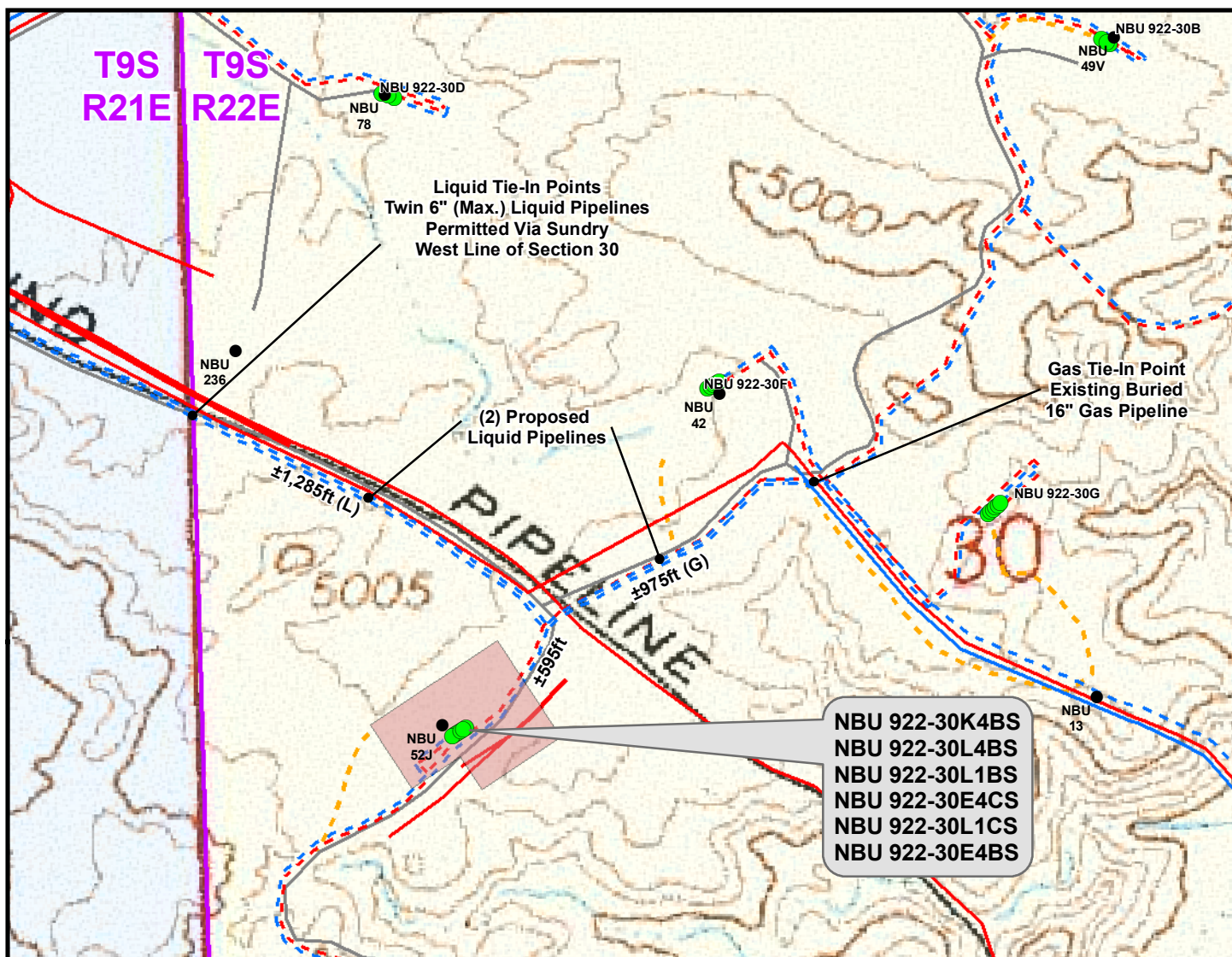
WELL PAD - NBU 922-30L**TOPO C**

NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central | Sheet No:
Drawn: TL | Date: 14 Jan 2011 | **14**
Revised: TL | Date: 13 May 2011 | 14 of 18



Proposed Gas Pipeline	Alignment Length	Materials Length
(1) Buried 6" (Meter House to 30N Intersection)	±90ft	±90ft
(1) Buried 10" (30N Intersection to Existing Buried 16" Gas Pipeline)	±1,570ft	±1,570ft
TOTAL PROPOSED GAS PIPELINE =	±1,660ft	±1,660ft

Proposed Liquid Pipeline	Alignment Length	Materials Length
(1) Buried 6" (Max.) (Meter House to 30N Intersection)	±90ft	±90ft
(1) Buried 6" (Max.) (30N Intersection to 30F Intersection)	±595ft	±595ft
(2) Buried 6" (Max.) (30F Liquid Intersection to West Line of Section 30)	±1,285ft	±2,570ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,970ft	±3,255ft

Legend

- Well - Proposed
 Well Pad
 - - - Gas Pipeline - Proposed
 - - - Liquid Pipeline - Proposed
 - - - Road - Proposed
 Bureau of Land Management
- Well - Existing
 - - - Gas Pipeline - To Be Upgraded
 - - - Liquid Pipeline - To Be Upgraded
 - - - Road - Existing
 Indian Reservation
- - - Gas Pipeline - Existing
 - - - Liquid Pipeline - Existing
 State
 Private

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

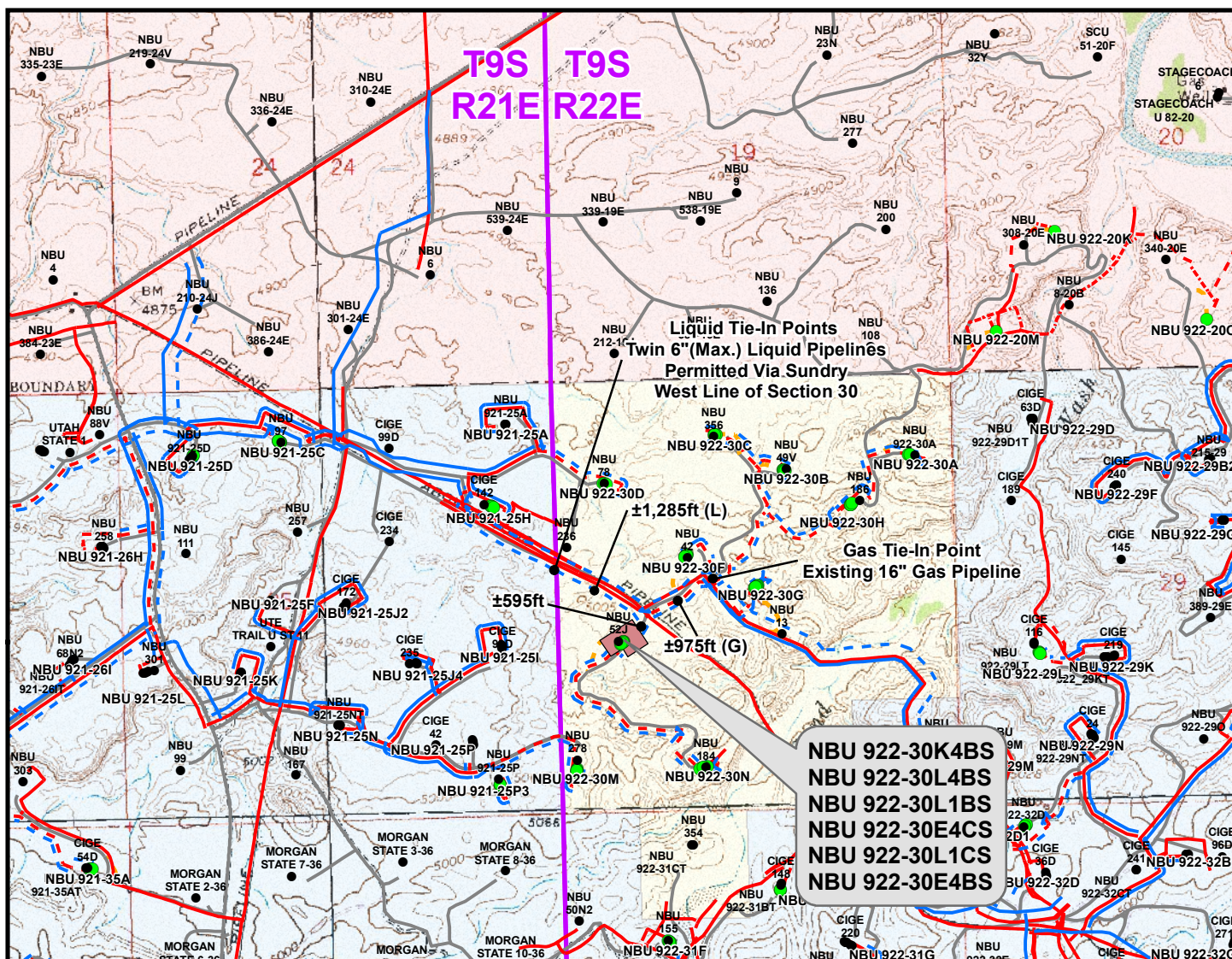
WELL PAD - NBU 922-30L

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-30K4BS, NBU 922-30L4BS,
 NBU 922-30L1BS, NBU 922-30E4CS,
 NBU 922-30L1CS & NBU 922-30E4BS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	16
Revised: TL	Date: 13 May 2011	

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Proposed Gas Pipeline	Alignment Length	Materials Length
(1) Buried 6" (Meter House to 30N Intersection)	±90ft	±90ft
(1) Buried 10" (30N Intersection to Existing Buried 16" Gas Pipeline)	±1,570ft	±1,570ft
TOTAL PROPOSED GAS PIPELINE =	±1,660ft	±1,660ft

Proposed Liquid Pipeline	Alignment Length	Materials Length
(1) Buried 6" (Max.) (Meter House to 30N Intersection)	±90ft	±90ft
(1) Buried 6" (Max.) (30N Intersection to 30F Intersection)	±595ft	±595ft
(2) Buried 6" (Max.) (30F Liquid Intersection to West Line of Section 30)	±1,285ft	±2,570ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,970ft	±3,255ft

Legend

● Well - Proposed	■ Well Pad	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing		- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - - Road - Existing	■ Indian Reservation
		- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing		■ State
					■ Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30L

TOPO D

NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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CONSULTING, LLC
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Phone (307) 674-0609
Fax (307) 674-0182

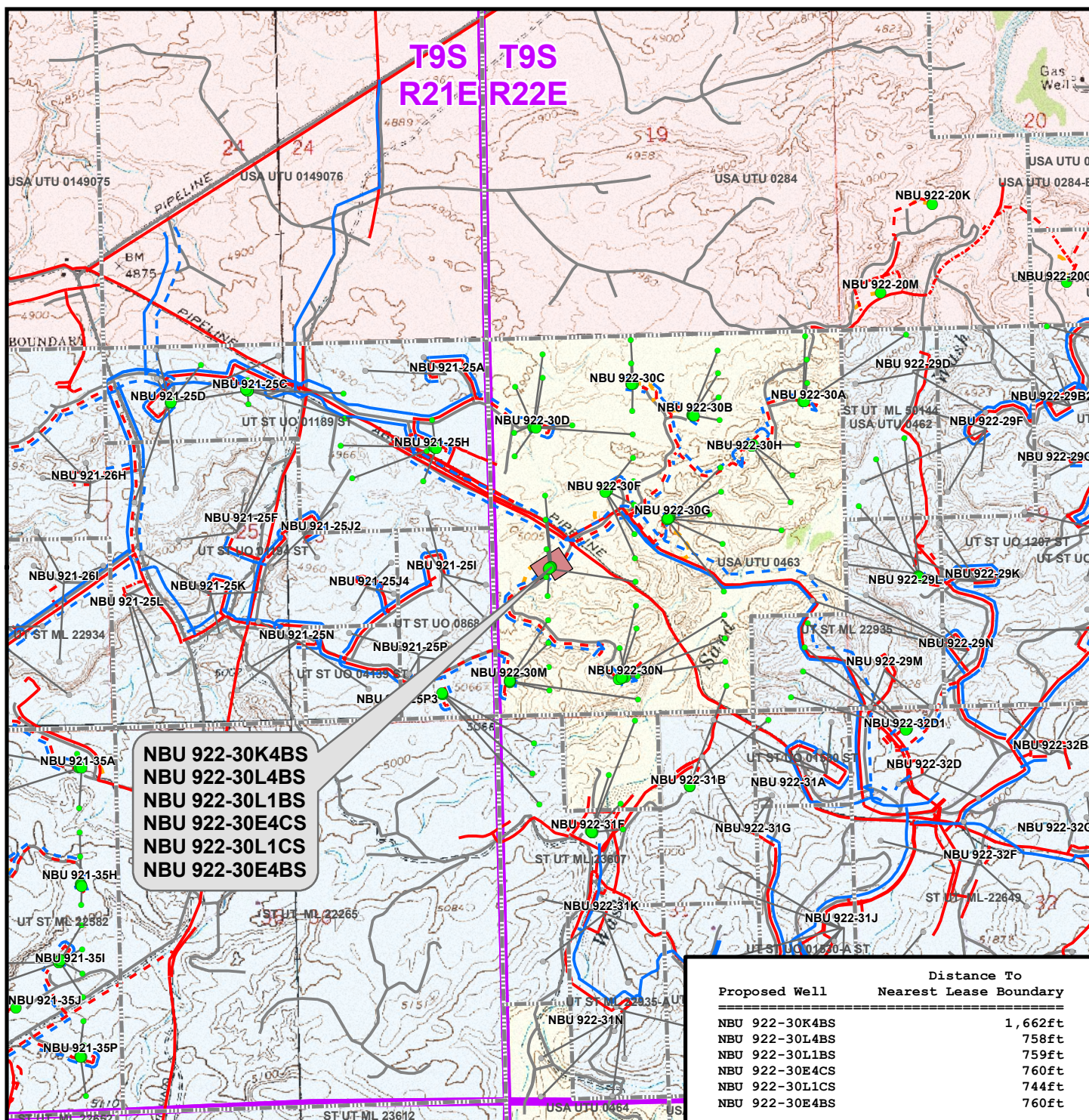


Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: TL	Date: 14 Jan 2011
Revised: TL	Date: 13 May 2011

Sheet No:

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**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▬ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30L**TOPO E**

NBU 922-30K4BS, NBU 922-30L4BS,
NBU 922-30L1BS, NBU 922-30E4CS,
NBU 922-30L1CS & NBU 922-30E4BS
LOCATED IN SECTION 30, T9S, R22E,
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Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: TL | Date: 14 Jan 2011
Revised: TL | Date: 13 May 2011

Sheet No:

17

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NBU 922-30L PAD

Drilling Program
1 of 7**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 922-30L1CS**

Surface:	2085 FSL / 783 FWL	NWSW
BHL:	1964 FSL / 744 FWL	NWSW

Section 30 T9S R22E

Uintah County, Utah
Mineral Lease: UTU 0463

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1400	
Birds Nest	1708	Water
Mahogany	2073	Water
Wasatch	4652	Gas
Mesaverde	7291	Gas
MVU2	8272	Gas
MVL1	8820	Gas
TVD	9543	
TD	9546	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9543' TVD, approximately equals
6,094 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,995 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

NBU 922-30L PAD

Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. **Other Information:**

Please refer to the attached Drilling Program.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	June 21, 2011		
WELL NAME	NBU 922-30L1CS					TD	9,543'	TVD	9,546' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4971'
SURFACE LOCATION	NWSW	2085 FSL	783 FWL	Sec 30	T 9S	R 22E			
	Latitude:	40.005464	Longitude:	-109.487861		NAD 83			
BTM HOLE LOCATION	NWSW	1964 FSL	744 FWL	Sec 30	T 9S	R 22E			
	Latitude:	40.005131	Longitude:	-109.488000		NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p> <p>Green River @ 1,400'</p> <p>Top of Birds Nest @ 1,708'</p> <p>Mahogany @ 2,073'</p> <p>Preset f/ GL @ 2,520' TVD</p> <p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p> <p>Wasatch @ 4,652'</p> <p>Mud logging program TBD</p> <p>Cased hole logging program from TD - surf csg</p> <p>Mverde @ 7,291' TVD</p> <p>MVU2 @ 8,272' TVD</p> <p>MVU1 @ 8,820' TVD</p> <p>Max anticipated Mud required 12.5 ppg</p> <p>TD @ 9,543' TVD 9,546' MD</p>					
			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg

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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC	BTC
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,520	28.00	IJ-55	LTC	2.15	1.59	5.63
						7,780	6,350	279,000
PRODUCTION	4-1/2"	0 to 9,546	11.60	I-80	LTC/BTC	1.11	1.02	3.11
								4.10

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,020'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,146'	Premium Lite II +0.25 pps	310	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,400'	50/50 Poz/G + 10% salt + 2% gel	1,280	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers

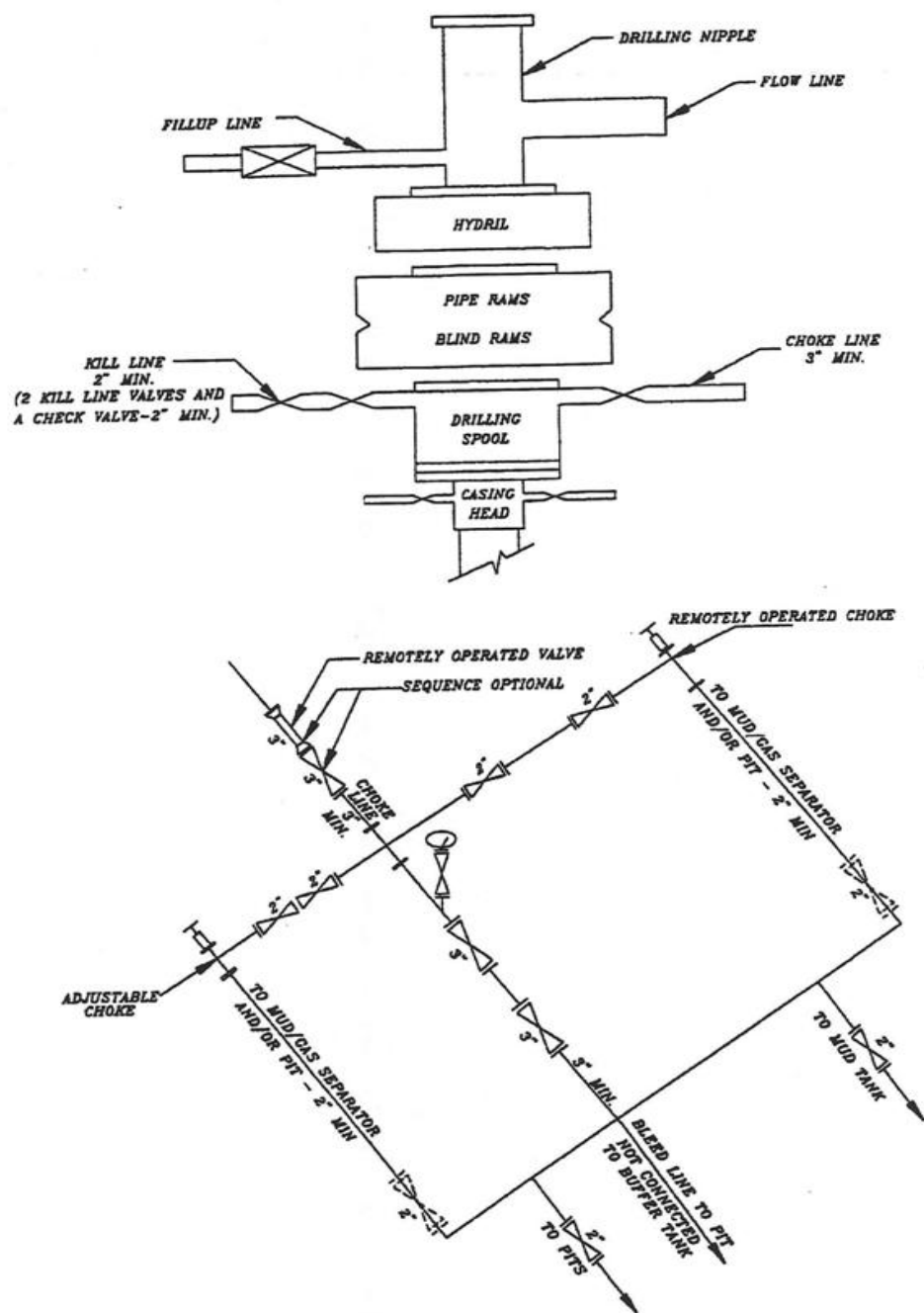
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

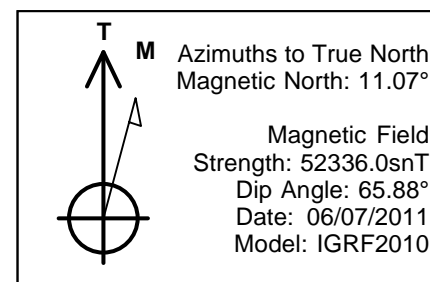
DATE:

EXHIBIT A NBU 922-30L1CS





Project: Uintah County, UT UTM12
 Site: NBU 922-30L PAD
 Well: NBU 922-30L1CS
 Wellbore: OH
 Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 922-30L1CS

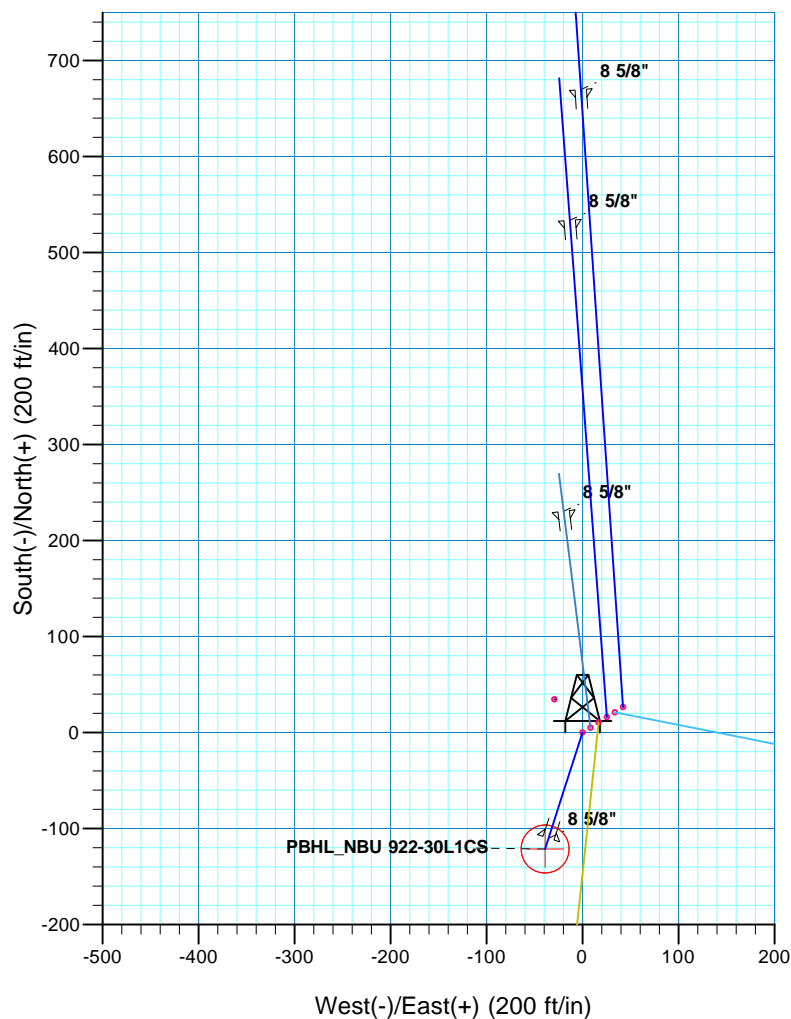
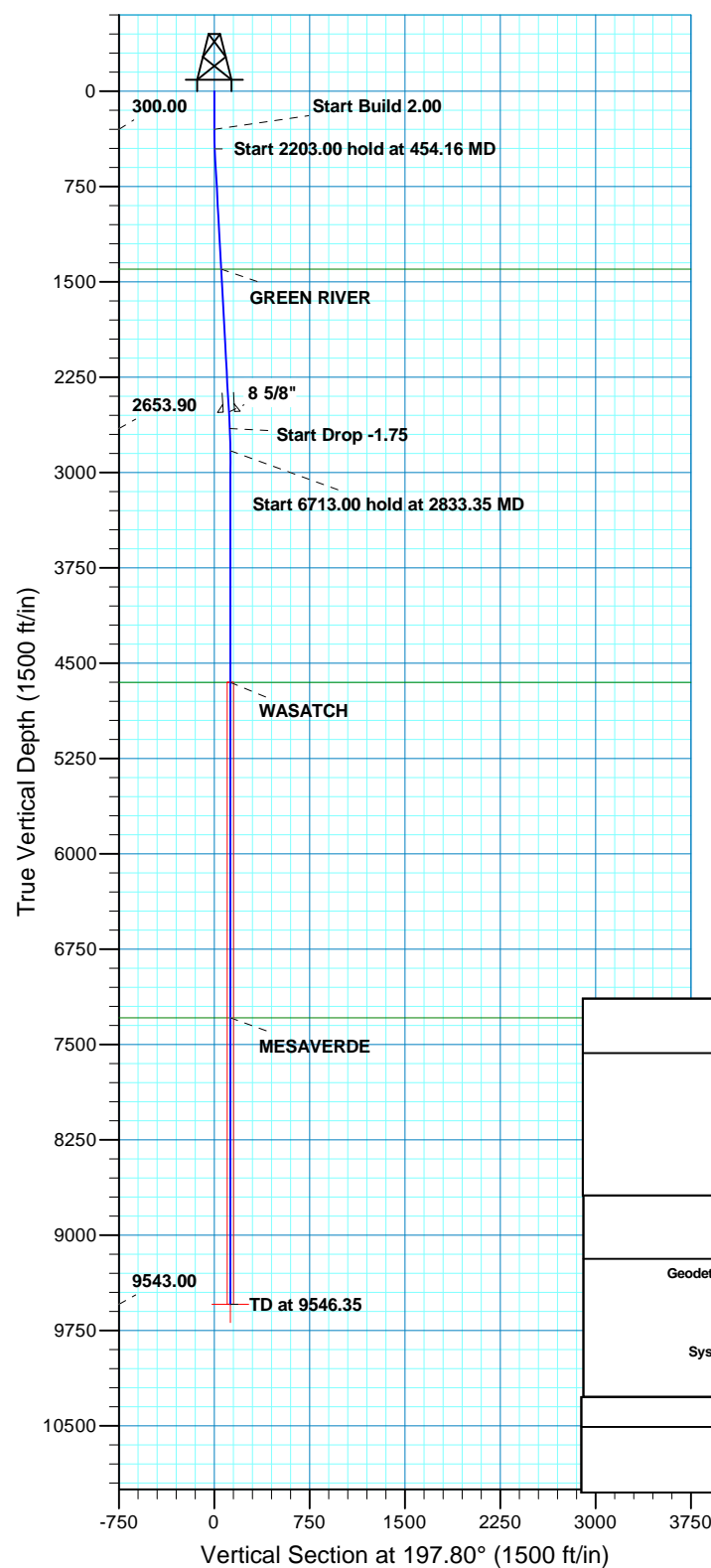
GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14531642.75	2064070.53	40° 0' 19.796 N	109° 29' 13.830 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9543.00	-121.28	-38.93	14531520.82	2064033.66	40° 0' 18.598 N	109° 29' 14.330 W	Circle (Radius: 25.00)

- plan hits target center



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
454.16	3.08	197.80	454.09	-3.95	-1.27	2.00	197.80	4.15
2657.16	3.08	197.80	2653.90	-116.77	-37.48	0.00	0.00	122.64
2833.35	0.00	0.00	2830.00	-121.28	-38.93	1.75	180.00	127.38
9546.35	0.00	0.00	9543.00	-121.28	-38.93	0.00	0.00	127.38PBHL_NBU 922-30L1CS

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SECTION 30 T9S R22E
 System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1400.00	1401.45	GREEN RIVER
4652.00	4655.35	WASATCH
7291.00	7294.35	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2523.00	2526.07	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 922-30L1CS/OH)

Created By: RobertScott Date: 15:57, June 09 2011

RECEIVED Jul. 05, 2011



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 922-30L PAD

NBU 922-30L1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

14 June, 2011





SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Site:	NBU 922-30L PAD	North Reference:	True
Well:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-30L PAD, SECTION 30 T9S R22E		
Site Position:		Northing:	14,531,642.75 usft
From:	Lat/Long	Easting:	2,064,070.53 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	40° 0' 19.796 N
		Longitude:	109° 29' 13.830 W
		Grid Convergence:	0.97 °

Well	NBU 922-30L1CS, 2106 FSL 817 FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,531,642.75 usft
	+E/-W	0.00 ft	Easting: 2,064,070.53 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 40° 0' 19.796 N
			Longitude: 109° 29' 13.830 W
			Ground Level: 4,971.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/07/2011	11.07	65.88	52,336

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	197.80

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
454.16	3.08	197.80	454.09	-3.95	-1.27	2.00	2.00	0.00	197.80	
2,657.16	3.08	197.80	2,653.90	-116.77	-37.48	0.00	0.00	0.00	0.00	
2,833.35	0.00	0.00	2,830.00	-121.28	-38.93	1.75	-1.75	0.00	180.00	
9,546.35	0.00	0.00	9,543.00	-121.28	-38.93	0.00	0.00	0.00	0.00	PBHL_NBU 922-30L1



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Site:	NBU 922-30L PAD	North Reference:	True
Well:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	197.80	399.98	-1.66	-0.53	1.75	2.00	2.00	0.00
454.16	3.08	197.80	454.09	-3.95	-1.27	4.15	2.00	2.00	0.00
Start 2203.00 hold at 454.16 MD									
500.00	3.08	197.80	499.86	-6.30	-2.02	6.61	0.00	0.00	0.00
600.00	3.08	197.80	599.71	-11.42	-3.67	11.99	0.00	0.00	0.00
700.00	3.08	197.80	699.57	-16.54	-5.31	17.37	0.00	0.00	0.00
800.00	3.08	197.80	799.43	-21.66	-6.95	22.75	0.00	0.00	0.00
900.00	3.08	197.80	899.28	-26.78	-8.60	28.13	0.00	0.00	0.00
1,000.00	3.08	197.80	999.14	-31.90	-10.24	33.51	0.00	0.00	0.00
1,100.00	3.08	197.80	1,098.99	-37.02	-11.89	38.88	0.00	0.00	0.00
1,200.00	3.08	197.80	1,198.85	-42.14	-13.53	44.26	0.00	0.00	0.00
1,300.00	3.08	197.80	1,298.70	-47.27	-15.17	49.64	0.00	0.00	0.00
1,400.00	3.08	197.80	1,398.56	-52.39	-16.82	55.02	0.00	0.00	0.00
1,401.45	3.08	197.80	1,400.00	-52.46	-16.84	55.10	0.00	0.00	0.00
GREEN RIVER									
1,500.00	3.08	197.80	1,498.41	-57.51	-18.46	60.40	0.00	0.00	0.00
1,600.00	3.08	197.80	1,598.27	-62.63	-20.11	65.78	0.00	0.00	0.00
1,700.00	3.08	197.80	1,698.12	-67.75	-21.75	71.16	0.00	0.00	0.00
1,800.00	3.08	197.80	1,797.98	-72.87	-23.39	76.53	0.00	0.00	0.00
1,900.00	3.08	197.80	1,897.83	-77.99	-25.04	81.91	0.00	0.00	0.00
2,000.00	3.08	197.80	1,997.69	-83.11	-26.68	87.29	0.00	0.00	0.00
2,100.00	3.08	197.80	2,097.54	-88.24	-28.33	92.67	0.00	0.00	0.00
2,200.00	3.08	197.80	2,197.40	-93.36	-29.97	98.05	0.00	0.00	0.00
2,300.00	3.08	197.80	2,297.25	-98.48	-31.61	103.43	0.00	0.00	0.00
2,400.00	3.08	197.80	2,397.11	-103.60	-33.26	108.81	0.00	0.00	0.00
2,500.00	3.08	197.80	2,496.96	-108.72	-34.90	114.19	0.00	0.00	0.00
2,526.07	3.08	197.80	2,523.00	-110.06	-35.33	115.59	0.00	0.00	0.00
8 5/8"									
2,600.00	3.08	197.80	2,596.82	-113.84	-36.55	119.56	0.00	0.00	0.00
2,657.16	3.08	197.80	2,653.90	-116.77	-37.48	122.64	0.00	0.00	0.00
Start Drop -1.75									
2,700.00	2.33	197.80	2,696.69	-118.70	-38.10	124.66	1.75	-1.75	0.00
2,800.00	0.58	197.80	2,796.65	-121.12	-38.88	127.21	1.75	-1.75	0.00
2,833.35	0.00	0.00	2,830.00	-121.28	-38.93	127.38	1.75	-1.75	486.39
Start 6713.00 hold at 2833.35 MD									
2,900.00	0.00	0.00	2,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,000.00	0.00	0.00	2,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,100.00	0.00	0.00	3,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,200.00	0.00	0.00	3,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,300.00	0.00	0.00	3,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,400.00	0.00	0.00	3,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,500.00	0.00	0.00	3,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,600.00	0.00	0.00	3,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,700.00	0.00	0.00	3,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,800.00	0.00	0.00	3,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00
3,900.00	0.00	0.00	3,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Site:	NBU 922-30L PAD	North Reference:	True
Well:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,000.00	0.00	0.00	3,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,655.35	0.00	0.00	4,652.00	-121.28	-38.93	127.38	0.00	0.00	0.00	
WASATCH										
4,700.00	0.00	0.00	4,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,294.35	0.00	0.00	7,291.00	-121.28	-38.93	127.38	0.00	0.00	0.00	
MESAVERDE										
7,300.00	0.00	0.00	7,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,596.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,696.65	-121.28	-38.93	127.38	0.00	0.00	0.00	



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4971' & KB 9' @ 4980.00ft (Original Well Elev)
Site:	NBU 922-30L PAD	North Reference:	True
Well:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,796.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,896.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,996.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,096.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,196.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,296.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,396.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,496.65	-121.28	-38.93	127.38	0.00	0.00	0.00	
9,546.35	0.00	0.00	9,543.00	-121.28	-38.93	127.38	0.00	0.00	0.00	
PBHL_NBU 922-30L1CS										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL_NBU 922-30L1CS	0.00	0.00	9,543.00	-121.28	-38.93	14,531,520.83	2,064,033.66	40° 0' 18.598 N	109° 29' 14.330 W	
- plan hits target center										
- Circle (radius 25.00)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,526.07	2,523.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,401.45	1,400.00	GREEN RIVER		0.00	
4,655.35	4,652.00	WASATCH		0.00	
7,294.35	7,291.00	MESAVERDE		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
454.16	454.09	-3.95	-1.27	Start 2203.00 hold at 454.16 MD	
2,657.16	2,653.90	-116.77	-37.48	Start Drop -1.75	
2,833.35	2,830.00	-121.28	-38.93	Start 6713.00 hold at 2833.35 MD	
9,546.35	9,543.00	-121.28	-38.93	TD at 9546.35	



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

April 4, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 922-30L1CS
T9S-R22E
Section 30 NWSW (Surf), NWSW (Bottom)
Surface: 2085' FSL, 783' FWL
Bottom Hole: 1964' FSL, 744' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 922-30L1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

RECEIVED Jul. 05, 2011

NBU 922-30E4BS / 922-30E4CS / 922-30K4BS / 922-30L1BS / 922-30L1CS / 922-30L4BS
Kerr-McGee Oil Gas Onshore, L.P.

NBU 922-30L Pad
Surface Use Plan of Operations
1 of 13

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-30L Pad

<u>API #</u>	<u>NBU 922-30E4BS</u>			
	Surface:	2112 FSL / 826 FWL	NWSW	Lot 3
	BHL:	2194 FNL / 760 FWL	SWNW	Lot 2
<u>API #</u>	<u>NBU 922-30E4CS</u>			
	Surface:	2101 FSL / 809 FWL	NWSW	Lot 3
	BHL:	2519 FNL / 760 FWL	SWNW	Lot 2
<u>API #</u>	<u>NBU 922-30K4BS</u>			
	Surface:	2085 FSL / 783 FWL	NWSW	Lot 3
	BHL:	1872 FSL / 1978 FWL	NESW	Lot
<u>API #</u>	<u>NBU 922-30L1BS</u>			
	Surface:	2096 FSL / 800 FWL	NWSW	Lot 3
	BHL:	2355 FSL / 759 FWL	NWSW	Lot 3
<u>API #4304739540</u>	<u>NBU 922-30L1CS</u>			
	Surface:	2106 FSL / 817 FWL	NWSW	Lot 3
	BHL:	1964 FSL / 744 FWL	NWSW	Lot 3
<u>API #</u>	<u>NBU 922-30L4BS</u>			
	Surface:	2090 FSL / 792 FWL	NWSW	Lot 3
	BHL:	1705 FSL / 758 FWL	NWSW	Lot 3

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 5, 2011. Present were:

- David Gordon, Melissa Wardle, Karl Wright and Dan Emmett - BLM; and
- John Slaugh and Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Jacob Dunham - 609 Consulting, LLC; and
- Andy Lytle, Charles Chase, Ken Gathings, Roger Parry, Grizz Oleen, and Sheila Wopsock - Kerr-McGee

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

No segments require a ROW.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts,

bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road-utility corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s) adjacent to the well pad, as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±410' (0.08 miles) – Section 30 T09S R22E (NW/4 SW/4) – On-lease UTU0463, re-route from the SW corner of the pad to the existing access road. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 52J, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on June 2, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components that contain fluids (i.e. production tanks, produced liquids tanks, but typically excluding dehy's and/or separators). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event, and be independent of the back cut. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±1,660' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±90' (0.01 miles) – Section 30 T09S R22E (NW/4 SW/4) – On-lease UTU0463, BLM surface, New 6" buried gas gathering pipeline from the meter to the 30N intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,570' (0.3 miles) – Section 30 T09S R22E (NW/4 SW/4) – On-lease UTU0463, BLM surface, New 10" buried gas pipeline from the 30N intersection to the existing 16" gas pipeline (SE/4 NW/4). Please refer to Exhibit A, Line 13. This pipeline will be used concurrently with the 30N pad.

CATHODIC PROTECTION SITE

Section 30 T09S R22E (NE/4 SW/4)
2474' FSL & 1186' FWL

Deep well ground bed and Cathodic Protection equipment will be installed within the pipeline route to protect the integrity of the pipeline(s). A buried power line approximately 120 Volts +/- will be constructed from the existing overhead power line to a rectifier. The rectifier, which is approximately 3' X 4' +/-, will convert the AC power to DC power; it is then connected to the buried pipeline(s) to protect it from corrosion. Please see attached plat, location layout, typical set-up, and Topo B map.

LIQUID GATHERING

Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

Kerr-McGee proposes to install liquid gathering lines in a southwesterly direction to tie into a proposed southeasterly flowing buried pipeline. The total of this proposed liquid gathering from the meter to the Section lease line (SE/4 SE/4) is ±6,590' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±90' (0.01 miles) – Section 30 T09S R22E (NW/4 SW/4) – On-lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the separator to the 30N intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±595' (0.12 miles) – Section 30 T09S R22E (NW/4 SW/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the 30N intersection to the proposed 30F intersection (NW/4 SW/4). Please refer to Exhibit B, Line 16. This pipeline will be used concurrently with the 30N pad.
- ±1,010' (0.19 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed 30G Intersection to the proposed 30L intersection (SE/4 NW/4). Please refer to Exhibit B, Line 2. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30A, and 30N pads. Two (2) lines for a total of 2,020'.
- ±495' (0.09 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed Transfer line to the tie-in point at the proposed 30G/30F intersection (SW/4 NE/4). Please refer Exhibit B, Line 13. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30A, and 30N pads. Two (2) Lines for a total of 990'.
- ±2,895' (0.55 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 30G/30F intersection going southeast to the edge of the lease boundry of SE/4 SE/4. Please refer to Exhibit B, Line 15. The remaining liquid pipeline segment will travel to the existing tank battery on State surface. Kerr-McGee will apply for the appropriate State easements under separate cover. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30A, and 30N pads.

Kerr-McGee, additionally will install a liquid gathering line in a southwesterly direction to tie-into a proposed northwesterly flowing buried pipeline. The total of this proposed liquid gathering from the meter to the tie in point is $\pm 3,255'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- $\pm 90'$ (0.01 miles) – Section 30 T09S R22E (NW/4 SW/4) – On-lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the separator to the 30N intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 595'$ (0.12 miles) – Section 30 T09S R22E (NW/4 SW/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the 30N intersection to the proposed 30F intersection (NW/4 SW/4). Please refer to Exhibit B, Line 16. This pipeline will be used concurrently with the 30N pad.
- $\pm 1,285'$ (0.24 miles) – Section 30 T09S R22E (NW/4 SW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed 30L Intersection to the West Line of Section 30 where it will tie-into an existing liquid gathering pipeline on State surface. Please refer to Exhibit B, Line 1. Two (2) lines for a total of 2,570'. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30A, and 30N pads.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr-McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45' for buried lines and 30' for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30'.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If all three lines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Please see site specific PODs and/or mapping materials for location of related facilities such as cathodic protection wells or pumping stations. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, lateral T's, and/or cathodic protection wells will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the BLM, Vernal Field Office before terminating the use of the pipeline(s).

Deep well ground bed and Cathodic Protection equipment will be installed within the pipeline route to protect the integrity of the pipeline(s). A buried power line approximately 120 Volts +/- will be constructed from the existing overhead power line to a rectifier. The rectifier, which is approximately 3' X 4' +/-, will convert the AC power to DC power; it is then connected to the buried pipeline(s) to protect it from corrosion. Please see attached plat for location of Cathodic Protection.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize the pit on this the proposed location as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum pipe liquids transfer lines between frac locations. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will

reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks can unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum pipe water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. Kerr-McGee understands that due to the temporary nature of this system BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil/topsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42" and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16'. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance, or meet the quantities criteria per BLM Instruction Memorandum No. 93-344, will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit, access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

Where produced liquids tanks are utilized, the tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids. The tanks will be fenced or capped to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without the prior approval of the BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24" on 18 to 24" centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18" deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	e Live Seed lbs/acre
Indian Ricegrass (Nezpar)	3
Sandberg bluegrass	0.75
Bottlebrush squirreltail	1
Great Basin Wildrye	0.5

Crested wheatgrass (Ephraim)	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 31, of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Onsite Specifics:

- A 404 Stream Alteration Permit will be obtained to cross the Sand Wash in the SE/4 of the section - See Exhibit A or B.
- Facilities: Will be painted Shadow Grey
- Existing surface gas gathering pipeline will be removed from location if no longer in service

NBU 922-30E4BS / 922-30E4CS / 922-30K4BS / 922-30L1BS / 922-30L1CS / 922-30L4BS
Kerr-McGee Oil Gas Onshore, L.P.

NBU 922-30L Pad
Surface Use Plan of Operations
13 of 13

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed on February 11, 2011, by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-243b.

A paleontological reconnaissance survey was completed on December 31, 2010, by Intermountain Paleo-Consulting. For additional details please refer to report IPC #10-33.

Biological field survey was completed on January 27, 2011, by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-405.

Biological field survey was completed for the Southeast Trunk Liquid Line on June 2, 2011, by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-457.

M. Lessee's or Operators' Representative & Certification:

Laura Abrams
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6356

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

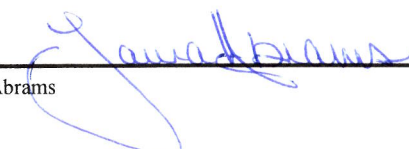
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Laura Abrams

June 2, 2011

Date

Jul. 05, 2011

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 53 PROPOSED WELL LOCATIONS IN
T9S, R22E, SECTIONS 30, 31, AND 32
(MOAC REPORT NO. 10-243b),
UINTAH COUNTY, UTAH

By:

Andrea Van Schmus

Prepared For:

State of Utah
School and Institutional Trust Lands Administration
and
Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1099 18th Street, Suite 1800
Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 10-243b

February 11, 2011

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122

RECEIVED Jul. 05, 2011



**INTERMOUNTAIN
PALEO-CONSULTING**

Stephen D. Sandau *Paleontologist*

P. O. Box 1125
Vernal, UT. 84078
Phone & Fax (435) 789-7402
Cell: (801) 592-4328
E-mail: intermountainpaleo@yahoo.com

IPC #10-33

Paleontological Reconnaissance Survey Report

**Block Section Survey of the SW Quarter of Section 30, Including Kerr
McGee's Proposed "NBU #922-30L, E4BS, L4BS, L1BS, K4BS, &
E4CS; NBU #922-30M, M4BS, M1CS, M1BS, L4CS, & N4CS;
NBU #922-30N, O1CS, O1BS, N4BS, N1BS, K4CS, & J4CS"
(Sec. 30, T 9 S, R 22 E)**

**Red Wash SW Topographic Quadrangle
Uintah County, Utah**

December 31, 2010

**Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078**



RECEIVED Jul. 05, 2011



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT SPECIES REPORT

Report Number: GCI-405

Report Date: January 27, 2011

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well: NBU 922-30L-T (Bores: NBU 922-30L4BS, NBU 922-30L1BS, NBU 922-30E4CS, NBU 922-30K4BS, and NBU 922-30E4BS)

Pipeline: Associated pipeline leading to proposed well pad expansion

Access Road: Associated access road re-route

Well Location: NW ¼ of the SW ¼, Section 30, Township 9 South, Range 22 East, Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Dates: June 22, June 24, August 10, and September 24, 2010

Observers: Grasslands Consulting, Inc. Biologists Dan Hamilton, Adrienne Cunningham, Josh Christensen, and field technicians



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT SPECIES REPORT

Report Number: GCI #457

Report Date: June 2, 2011

Operator: Kerr-McGee Oil & Gas Onshore, LP

Operator Contact: Andrew Lytle (Andrew.Lytle@anadarko.com; 720-929-6100)

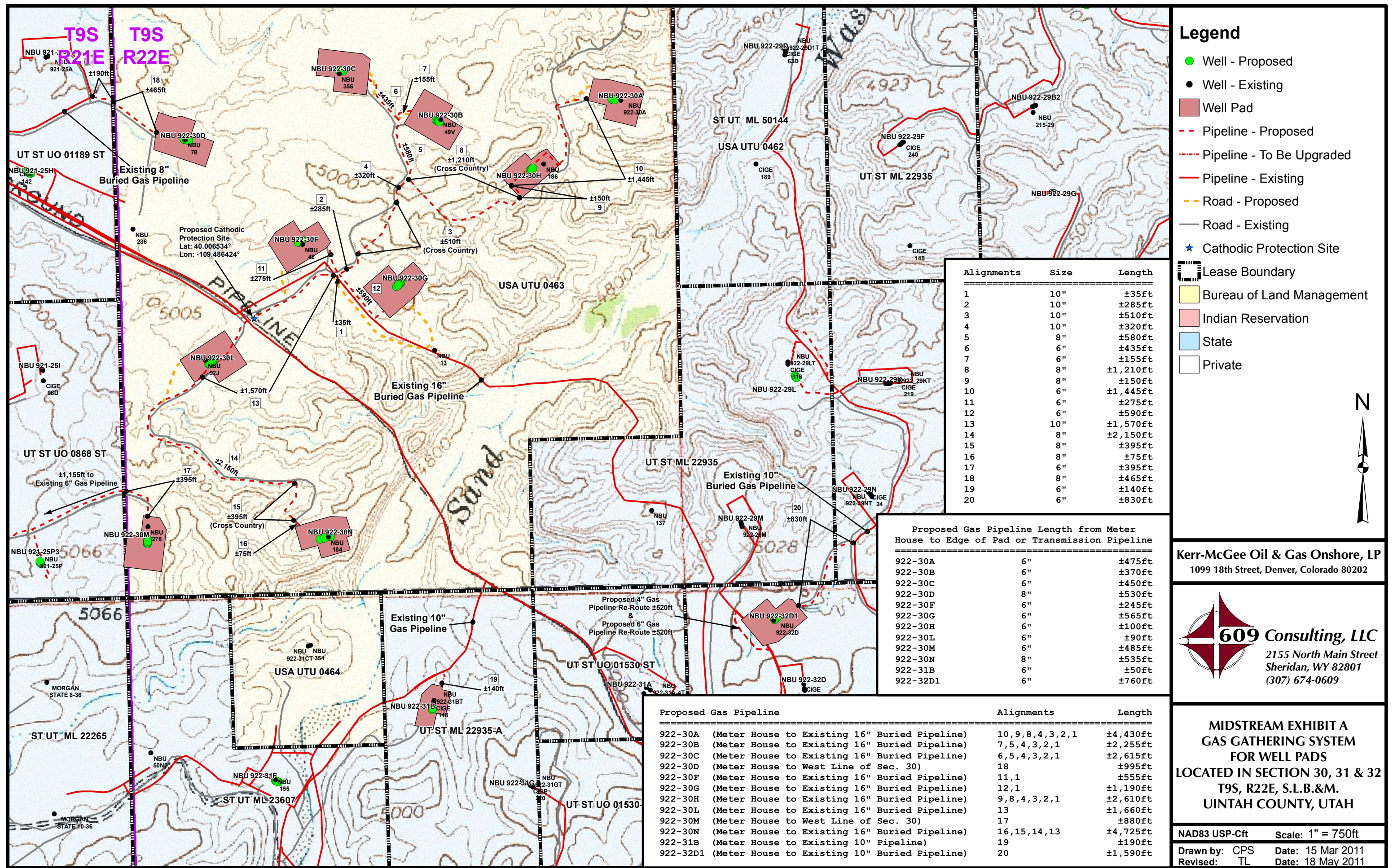
Proposed Project: NBU 922-30 to NBU 922-32 liquid pipeline

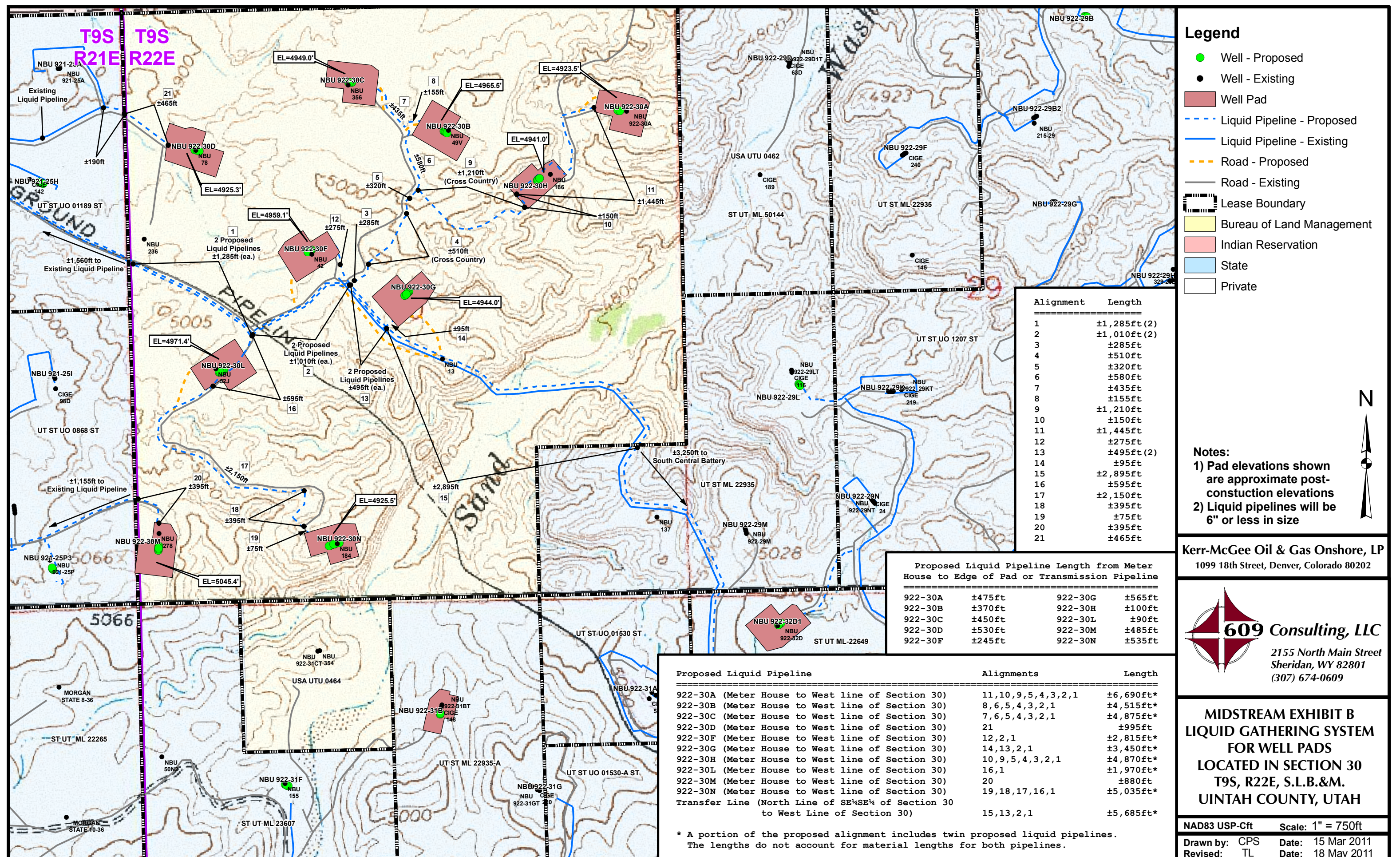
Location: Sections 29, 30, and 32 of Township 9 South, Range 22 East, Uintah County, Utah

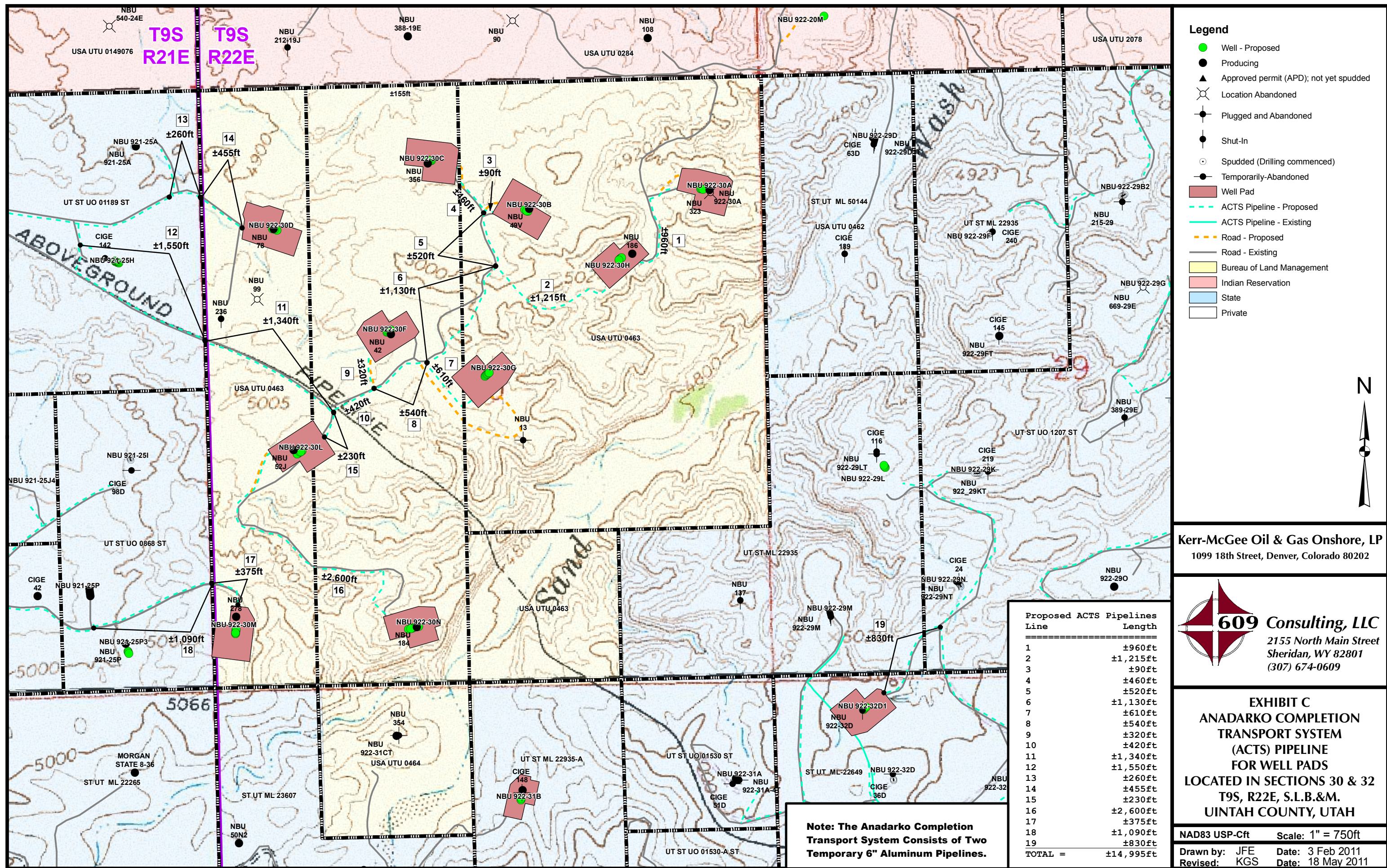
Survey Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Date: May 26, 2011

Observers: Grasslands Consulting, Inc. Biologists: Jonathan Sexauer, Tiffany Torrance, and field technicians







RECEIVED

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

JUL 01 2011

5. Lease Serial No.	UTU463
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No.	UTU63047A
8. Lease Name and Well No.	NBU 922-30LICS
9. API Well No.	43-047-39540
10. Field and Pool, or Exploratory	NATURAL BUTTES
11. Sec., T., R., M., or Blk. and Survey or Area	30 T 9S R 22E
12. County or Parish	UINTAH
13. State	UTAH

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE LP

3a. Address
P.O. BOX 173779
DENVER, CO 80202-3779

3b. Phone No. (include area code)
Andy Lytle 720-929-6100

4. Location of well (Report location clearly and in accordance with any State requirements. *)

At surface	NWSW	2085 FSL	783 FWL	Lat.	40.005464	Long.	-109.487861
At proposed prod. zone	NWSW	1964 FSL	744 FWL	Lat.	40.005131	Long.	-109.488

14. Distance in miles and direction from the nearest town or post office*
Approximately 42.3 Miles South of Vernal, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)	744'	16. No. of acres in lease	551	17. Spacing Unit dedicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	156'	19. Proposed Depth	9,546'	20. BLM/ BIA Bond No. on file	WYB000291
21. Elevations (Show whether DF, RT, GR, etc.)	4972' GR	22. Aproximate date work will start*	12/1/2011	23. Estimated duration	60-90 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file(see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the authorized officer. |

25. Signature	Name (Printed/ Typed)	Date
	Andy Lytle	6/21/2011
Title Regulatory Analyst I		

Approved By (Signature)	Name (Printed/ Typed)	Date
	Jerry Kenczka	DEC 15 2011
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Continued on page 2)

UDOGM

NOTICE OF APPROVAL

RECEIVED

*(Instructions on page 2)

DEC 19 2011

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	LOT 3, Sec. 30, T9S, R22E (S) LOT 3, Sec. 30, T9S, R22E (B)
Well No:	NBU 922-30L1CS	Lease No:	UTU-463
API No:	43-047-39540	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC COAs
DOI-BLM-UT-G010-2011-0411-EA**

General Conditions of Approval

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project.
- The operator will follow the Green River District Reclamation Guidelines for Reclamation.

Mitigation for Invasive Weeds

- All vehicles and equipment will be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas will be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.

Mitigation for Paleontology

- A permitted paleontologist is to be present for monitor purposes during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines

Mitigation Measures for Colorado River Fish Species:

- The best method to avoid entrapment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (see above); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
Northeastern Region
152 East 100 North, Vernal, UT 84078
Phone: (435) 781-9453

Mitigation for Migratory birds.

- Construction and drilling is not allowed from January 1 – August 31 to minimize impacts during Golden Eagle and Red-tailed hawk nesting
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be ~~recommended or~~ granted by the BLM biologist. *Authorized Officer.*

***DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 922-30L1CS
Qtr/Qtr NWSW Section 30 Township 9S Range 22E
Lease Serial Number UTU463
API Number 4304739540

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/03/2012 07:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 05/12/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED

MAY 02 2012

BLM - VERNAL FIELD OFFICE

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 0783 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000
PHONE NUMBER: 720 929-6511		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/3/2012	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON MAY 3, 2012 AT 13:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 14, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 5/14/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. BOX 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6247

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751706	NBU 922-30E4BS		NWSW	30	09S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	5/3/2012			5/14/2012	
Comments: MIRU BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 05/03/2012 AT 1000 HRS. <i>BHL: SWNW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739540	NBU 922-30L1CS		NWSW	30	09S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	5/3/2012			5/14/2012	
Comments: MIRU BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 05/03/2012 AT 1300 HR							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751707	NBU 922-30E4CS		NWSW	30	09S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	2900	5/3/2012			5/14/2012	
Comments: MIRU BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 05/03/2012 AT 1600 HRS. <i>BHL SWNW</i>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JENN HAWKINS

Name (Please Print)

Jenn Hawkins

Signature

OPERATIONS SPECIALIST III 5/9/2012

Title

Date

RECEIVED

MAY 11 2012

Div. of Oil, Gas & Mining

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0463			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L1CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 0783 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT wavier, closed loop drilling options, and a production casing change. All other aspects of the previously approved drilling plan will not change. Please see the attachment. Thank you.					
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 5/15/2012		Accepted by the Utah Division of Oil, Gas and Mining Date: May 24, 2012 By: <u>Derek Quist</u>			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30L1CS**

Surface: 2085 FSL / 783 FWL NWSW
BHL: 1964 FSL / 744 FWL NWSW

Section 30 T9S R22E

Uintah County, Utah
Mineral Lease: UTU 0463

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,400'	
Birds Nest	1,708'	Water
Mahogany	2,073'	Water
Wasatch	4,652'	Gas
Mesaverde	7,291'	Gas
Sego	9,543'	Gas
TVD	9,543'	
TD	9,546'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9543' TVD, approximately equals
6,108 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,995 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	May 15, 2012	
WELL NAME	NBU 922-30L1CS				TD	9,543'	9,546' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,971'
SURFACE LOCATION	NWSW	2085 FSL	783 FWL	Sec 30	T 9S	R 22E	
	Latitude:	40.005464	Longitude:	-109.487861		NAD 83	
BTM HOLE LOCATION	NWSW	1964 FSL	744 FWL	Sec 30	T 9S	R 22E	
	Latitude:	40.005131	Longitude:	-109.488000		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p> <p>Green River @ 1,400'</p> <p>Top of Birds Nest @ 1,708'</p> <p>Mahogany @ 2,073'</p> <p>Preset f/ GL @ 2,520' TVD</p> <p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p> <p>Wasatch @ 4,652'</p> <p>Mud logging program TBD</p> <p>Cased hole logging program from TD - surf csg</p> <p>Mverde @ 7,291' TVD</p> <p>Sego @ 9,543' TVD</p> <p>Max anticipated Mud required 12.5 ppg</p> <p>TD @ 9,546' MD</p>					
			7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC COLLAPSE	DQX TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,520	28.00	IJ-55	LTC	2.15	1.59	5.63
						7,780	6,350	223,000
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.02	2.98
						7,780	6,350	223,000
	4-1/2"	5,000 to 9,546'	11.60	I-80	LTC	1.11	1.02	5.23

Surface casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
		NOTE: If well will circulate water to surface, option 2 will be utilized				
SURFACE Option 2	LEAD 2,020'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00	3.82
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD 4,146'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	330	35%	12.00	3.38
	TAIL 5,400'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,280	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

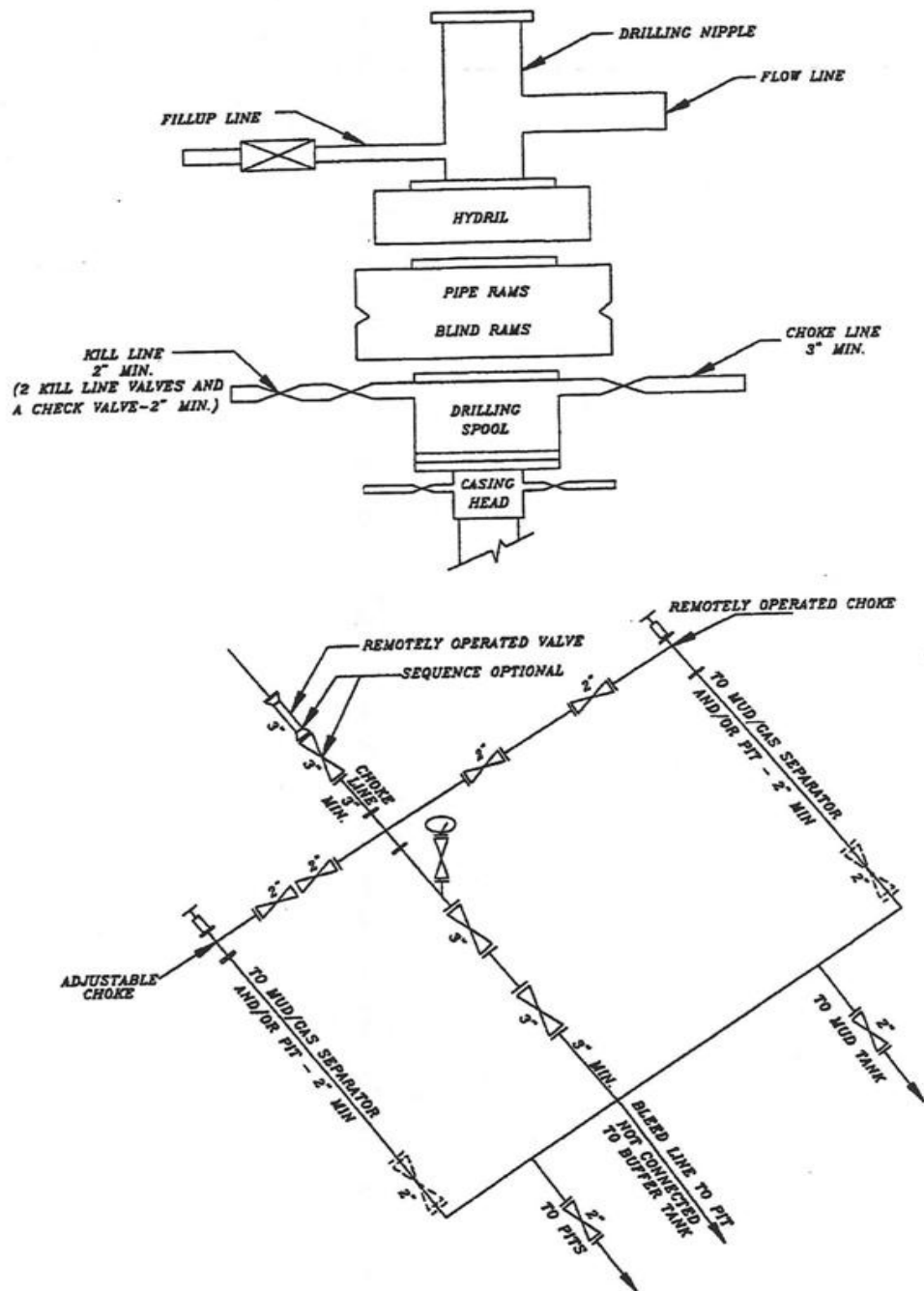
Nick Spence / Danny Showers / Chad Loesel

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A
NBU 922-30L1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30L1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 0783 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047395400000
PHONE NUMBER: 720 929-6511		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/25/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON 5/22/2012. DRILLED SURFACE HOLE TO 2655'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
NAME (PLEASE PRINT) Cara Mahler		PHONE NUMBER 720 929-6029
SIGNATURE N/A		TITLE Regulatory Analyst I
DATE 5/25/2012		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 25, 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/6/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity for the month of June 2012. Surface casing set at 2,655'.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 11, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 7/6/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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PHONE NUMBER: 720 929-6511		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/26/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:
OTHER: <input style="width: 100px;" type="text" value="ACTS PIT"/>				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2655' TO 9520' ON 7/24/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED SST 54 RIG ON 7/26/2012 @ 6:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

July 30, 2012

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/27/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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COUNTY: UTAH		STATE: UTAH
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/5/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
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	<input type="checkbox"/> PLUG BACK	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of August 2012. Well TD at 9,520.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 11, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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COUNTY: UTAH		STATE: UTAH
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/2/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 9,520.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 03, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 10/2/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/23/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 10/23/2012. The Chronological Well History will be submitted with the well completion Report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 29, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 10/25/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU463

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. UTU63047A	
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		8. Lease Name and Well No. NBU 922-30L1CS	
3. Address PO BOX 173779 DENVER, CO 80217		9. API Well No. 43-047-39540	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 2085FSL 783FWL 40.005464 N Lat, 109.487861 W Lon At top prod interval reported below NWSW 1978FSL 733FWL At total depth NWSW Lot 3 1954FSL 762FWL <i>BHL by HSM</i>		10. Field and Pool, or Exploratory NATURAL BUTTES	
14. Date Spudded 05/03/2012		15. Date T.D. Reached 07/24/2012	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/23/2012		17. Elevations (DF, KB, RT, GL)* 4971 GL	
18. Total Depth: MD 9520 TVD 9515		19. Plug Back T.D.: MD 9460 TVD 9455	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/CCL/GR/TEMP	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2641		575		0	
7.875	4.500 I-80	11.6	0	9507		1477		1650	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8914							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6069	7328	6069 TO 7328	0.360	104	OPEN
B) MESAVERDE	7355	9302	7355 TO 9302	0.360	184	OPEN
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6069 TO 9302	PUMP 12,268 BBLs SLICK H2O AND 296,757 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/23/2012	10/24/2012	24	→	0.0	2759.0	1152.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1900	2423.0	→	0	2759	1152		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #160535 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1401 1760 2245 4704 7355

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 ? in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 4932 ft; LTC csg was run from 4932 ft. to 9507 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #160535 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) LINDSEY A FRAZIER

Title REGUALTORY ANALYST

Signature (Electronic Submission)

Date 11/15/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/22/2012	12:30 - 15:00	2.50	MIRU	01	C	P		MIRU
	15:00 - 18:00	3.00	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOWLINE
	18:00 - 19:30	1.50	PRPSPD	06	A	P		PU 12.25" BIT & 8" MUD MOTOR & TIH
	19:30 - 21:00	1.50	DRLSUR	02	B	P		DRILL 12.25" SURFACE HOLE F/ 49'- 210'
								ROP= 161' @ 107 FPH
								WOB= 14/22K
								RPM= 55/105
								SPP=800/500
								GPM= 595
								TRQ= 2600/1900
								PU/SO/ROT = 49/46/47
								NO LOSSES
								HOLE IN GOOD SHAPE
	21:00 - 21:30	0.50	DRLSUR	06	A	P		TOOH & LAY DOWN 12" > 25" BIT
	21:30 - 23:00	1.50	DRLSUR	06	A	P		PICK UP 11" BIT & DIR TOOLS, SCRIBE, & TIH
	23:00 - 0:00	1.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 210'-314'
								ROP= 104' @ 1104 FPH
								WOB= 14/22K
								RPM= 55/105
								SPP=900/600
								GPM= 595
								TRQ= 2400/2200
								PU/SO/ROT = 49/46/47
								NO LOSSES
								HOLE IN GOOD SHAPE
5/23/2012	0:00 - 9:30	9.50	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 314'-1507'
								ROP= 1193' @ 126 FPH
								WOB= 24/28K
								RPM= 55/105
								SPP=1200/900
								GPM= 595
								TRQ= 2800/2400
								PU/SO/ROT = 92/59/74
								NO LOSSES
								HOLE IN GOOD SHAPE
	9:30 - 10:00	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	10:00 - 19:00	9.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 1507'- 2320'
								ROP= 793' @ 88 FPH
								WOB= 24/28K
								RPM= 55/105
								SPP=1200/900
								GPM= 595
								TRQ= 2800/2400
								PU/SO/ROT = 105/83/94
								NO LOSSES
								HOLE IN GOOD SHAPE
	19:00 - 20:00	1.00	DRLSUR	08	A	Z		WORK ON HYDRAULIC PUMP /// BOLTS BACKING OUT OF DRIVE LINE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/24/2012	20:00 - 23:00	3.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 2320'- 2655' ROP= 335' @ 112 FPH WOB= 24/28K RPM= 55/105 SPP=1200/900 GPM= 595 TRQ= 2800/2400 PU/SO/ROT =117/85/100 NO LOSSES HOLE IN GOOD SHAPE FINAL POSITION=1.5' RIGHT & 5' HIGH ROTATE =94% /// SLIDE 6% CIRC & COND. HOLE FOR 8.625" SURFACE CSG
	23:00 - 23:30	0.50	DRLSUR	05	F	P		LAY DOWN DRILL STRING
	23:30 - 0:00	0.50	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR TOOLS
	0:00 - 2:30	2.50	DRLSUR	06	A	P		REPAIR HOSE ON TOP DRIVE
	2:30 - 3:00	0.50	DRLSUR	08	A	Z		PJSM /// RUN 60 JTS, 8.625", 28#, J-55, LT&C CSG /// SHOE SET @ 2631' & BAFFLE @ 2585'
	3:00 - 5:00	2.00	CSGSUR	12	C	P		CIRC 8.625" CSG @ 2631'
	5:00 - 5:30	0.50	CSGSUR	05	F	P		PJSM /// TEST LINES TO 2000 PSI /// PUMP 40 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD= 250 SX CLASS G CMT @ 11.0 WT & 3.82 YIELD /// TAIL= 200 SX CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 161 BBL'S WATER /// PLUG DN @ 06:55 05/24/2012 /// BUMP PLUG W/ 900 PSI ///
	5:30 - 7:00	1.50	CSGSUR	12	E	P		FINAL LIFT = 620 PSI /// CHECK FLOATS-HELD W/ .5 BBL'S BACK /// FULL RETURNS THRU OUT JOB ///
	7:00 - 8:00	1.00	CSGSUR	14	A	P		21 BBL'S CMT TO SURFACE CUT OFF CONDUCTOR & HANG 8.625" SURFACE CSG
	8:00 - 9:00	1.00	CSGSUR	12	E	P		RUN 200' OF 1" AND TOP OUT W/ 125 SX CLASS G CMT @ 15.8 WT & 1.15 YIELD /// CMT STAYED @ SURFACE /// RELEASE RIG @ 09:00 TO THE MAVERICK 921-27D-HZ
7/20/2012	14:30 - 15:30	1.00	MIRU	01	C	P		SKID RIG TO NBU 922-30L1CS(WELL 6 OF 6)
	15:30 - 17:00	1.50	MIRU	14	A	P		NIPLE UP B.O.P., RIG UP CAMERON QUICK CONNECT, FLAIR LINES, CHOKE LINE, KILL LINE, FLOW LINE.
	17:00 - 23:00	6.00	MIRU	15	A	P		HOLD SAFETY MEETING WITH TESTER. RIG UP TESTER AND TEST DART VALVE, LOWER TOP DRIVE VALVE, I-BOP VALVE, TIW VALVE PIPE RAMS AND INSIDE BOP VALVES TO 5000 PSI FOR 10 MIN AND 250 LOW FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST BLIND RAMS, HCR VALVE, OUTSIDE KILL LINE VALVE, CHECK VALVE, CHOKE MANIFOLD TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CASING TO 1500 PSI FOR 5 MIN. RIG DOWN TESTER (MOVED OVER 500 BBL'S OF DRILL WATER AND DE WATERING UNITS)

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/21/2012	23:00 - 0:00	1.00	MIRU	09	A	P		SLIP AND CUT 50' OF DRILLING LINE.
	0:00 - 0:30	0.50	MIRU	14	B	P		PERFORMED PRE SPUD INSPECTION. PERFORM IADC ROTARY RIG INSPECTION. REVIEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVIEW OF WELLBORE, PRIOR TO SPUD.
	0:30 - 3:30	3.00	MIRU	06	A	P		INSTALL WEAR BUSHING. PREPARED BHA FOR TRIP. PICK UP HUNTING 1.50 BH .16 RPG MOTOR(SN-6223). MADE UP SMITH MDI 616 BIT W/ 6-15'S (SN JF9228).
								SCRIBED MOTOR. PICK UP DOUBLE PIN, NON MAG TOOL CARRIER AND EM SUB. ORIENT TOOLS, PICK UP HEAVY WEIGHT DRILL PIPE.
	3:30 - 5:00	1.50	DRLPRO	02	F	P		INSTALL ROTATING RUBBER TRIP IN TO 2522' TAG CEMENT @ 2522' SPUD 07/21/2012 03:30 DRILL CEMENT AND FLOAT EQUIPMENT 2522'-2640'. (FLOAT SHOE @ 2640'.) DRILLED CEMENT WITH 15K ON BIT, 450 GALLONS PER MINUTE, 50 ROTATION PER MINUTE.
	5:00 - 15:00	10.00	DRLPRC	02	D	P		DRILL SLIDE 2664'- 4063' (1399', 140'/HR) WEIGHT ON BIT 15-22K. AVERAGE WEIGHT ON BIT 18K. ROTARY RPM 65. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 940/874. DIFFERENTIAL 66. TORQUE ON/OFF 6522/5435. STRING WEIGHT UP/DOWN/ROT 90/65/70. DRAG 20K.
								DRILL OUT OF THE SHOE @ 3.59 INC. VERTICAL @ 2954'. 13' HIGH 8' LEFT OF LINE. SLIDE 175' AT 80'/HR. SLIDE 10% ROTATE 90%.
								RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 32 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 50 BBLs DRILL WATER INTO FORMATION. (LOSING 5 BBLs HR)
	15:00 - 15:30	0.50	DRLPRC	07	A	P		NO FLARE. (BOP DRILL 35 SEC) RIG SERVICE, FUNCTION PIPE RAMS AND CROWN O-MATIC, EATON BRAKE TEMP & PSI, SERVICE TOP DRIVE & CROWN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:30 - 0:00	8.50	DRLPRC	02	D	P		<p>DRILL SLIDE 4063'-5267' (1204', 141'/HR) WEIGHT ON BIT 15-22K. AVERAGE WEIGHT ON BIT 20K. ROTARY RPM 55. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 1993/1654. DIFFERENTIAL 339. TORQUE ON/OFF 9159/7493. STRING WEIGHT UP/DOWN/ROT 113/80/90. DRAG 23K.</p> <p>HOLDING VERTICAL @ 0.06 INC. VERTICAL @ 2954'. 15' NORTH 9' WEST OF LINE. SLIDE 175' AT 80'/HR. SLIDE 10% ROTATE 90%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 45 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLs DRILL WATER INTO FORMATION. (LOSING 7 BBLs HR)</p>
7/22/2012	0:00 - 9:30	9.50	DRLPRC	02	D	P		<p>NO FLARE. (BOP DRILL 35 SEC) DRILL SLIDE 5267'-6538' (1271', 133'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 2143/2051. DIFFERENTIAL 295. TORQUE ON/OFF 8739/7297. STRING WEIGHT UP/DOWN/ROT 113/80/90. DRAG 23K. HOLDING VERTICAL @ 0.88 INC. VERTICAL @ 2954'. 5.4' NORTH 5.4' WEST OF LINE. SLIDE 25' AT 80'/HR. SLIDE 3% ROTATE 97%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 45 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLs DRILL WATER INTO FORMATION. (LOSING 7 BBLs HR)</p>
	9:30 - 10:00	0.50	DRLPRC	07	A	P		<p>NO FLARE. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING. RIG SERVICE, FUNCTION PIPE RAMS AND CROWN O-MATIC, CHECK EATON BRAKE TEMP & PSI, SERVICE TOP DRIVE & CROWN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 16:30	6.50	DRLPRC	02	D	P		<p>DRILL SLIDE 6538'-7040' (502', 77'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1730/1703. DIFFERENTIAL 252. TORQUE ON/OFF 10203/8826. STRING WEIGHT UP/DOWN/ROT 180/100/140. DRAG 40K.</p> <p>HOLDING VERTICAL @ 0.75 INC. VERTICAL @ 2954'. 4.2' NORTH 4.1' WEST OF LINE. SLIDE 125' AT 80'/HR. SLIDE 15% ROTATE 85%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 36 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR)</p>
	16:30 - 18:30	2.00	DRLPRC	05	A	X		<p>NO FLARE. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.</p> <p>***FLUID LOSS: LOST 150 BBLS OF MUD @ 7040', TRANSITION INTO THE MESAVERDE FROM THE WASATCH PICKED UP OFF BOTTOM AND SLOWED PUMP RATE TO 218 GPM PUMPED 3-30 BBL SWEEPS CONSISTING OF 5 BAGS OF DRILLING PAPER AND 10 BAGS OF MULTI SEAL AND 1/3 BUCKET OF ANCHO DRILL. REGAINED RETURNS</p>
	18:30 - 19:30	1.00	DRLPRC	02	D	P		<p>DRILL SLIDE 7040'-7140' (100', 100'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1730/1703. DIFFERENTIAL 252. TORQUE ON/OFF 10203/8826. STRING WEIGHT UP/DOWN/ROT 180/100/140. DRAG 40K. HOLDING VERTICAL @ 0.75 INC. VERTICAL @ 2954'. 3.5' NORTH 3.8' WEST OF LINE. SLIDE 0% ROTATE 100%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 6 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 10 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) NO FLARE. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

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Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NWSW0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:30 - 21:00	1.50	DRLPRC	22	L	Z		***FAILURE: MWD @ 7140' LOST COMMUNICATION WITH TOOL REPLACED TRANSCEIVER, WORKED THROUGH SOME MORE COMMUNICATION ISSUES DUE TO NEW TRANSCEIVER
	21:00 - 0:00	3.00	DRLPRC	02	D	P		DRILL SLIDE 7140'-7267' (127', 42'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1800/1769. DIFFERENTIAL 274. TORQUE ON/OFF 9442/8906. STRING WEIGHT UP/DOWN/ROT 190/110/145. DRAG 45K. HOLDING VERTICAL @ 0.19 INC. VERTICAL @ 2954'. 2.5' NORTH 2.5' WEST OF LINE. SLIDE 52' AT 40'/HR. SLIDE 10% ROTATE 90%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 8 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) NO FLARE. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.
7/23/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		DRILL SLIDE 7267'-7548' (281', 46'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1800/1769. DIFFERENTIAL 274. TORQUE ON/OFF 9442/8906. STRING WEIGHT UP/DOWN/ROT 190/110/145. DRAG 45K. HOLDING VERTICAL @ 0.19 INC. VERTICAL @ 2954'. 12.5' NORTH 0.2' WEST OF LINE. SLIDE 71' AT 30'/HR. SLIDE 12% ROTATE 88%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 18 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) NO FLARE. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 15:00	9.00	DRLPRC	02	D	P		<p>DRILL SLIDE 7548'-8062' (514', 57'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1740/1672. DIFFERENTIAL 290. TORQUE ON/OFF 11471/1052. STRING WEIGHT UP/DOWN/ROT 210/140/175. DRAG 35K.</p> <p>HOLDING VERTICAL @ 0.19 INC. VERTICAL @ 2954'. 25' NORTH 0.5' WEST OF LINE. SLIDE 21' AT 30'/HR. SLIDE 5% ROTATE 95%. LEFT THE TARGET @ 8000' @ .81 DEG</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING WITH 1 CENTRAFUGE AND CONVENTIONAL WITH 1 CENTRAFUGE.(WT 8.7 VIS 32.)</p> <p>USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 90 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR)</p> <p>10' FLARE FOR 3 HOURS-21404 SCF. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.</p>
	15:00 - 15:30	0.50	DRLPRC	07	A	P		<p>RIG SERVICE, FUNCTION PIPE RAMS AND CROWN O-MATIC, CHECK EATON BRAKE TEMP & PSI, SERVICE TOP DRIVE & CROWN.</p>
	15:30 - 0:00	8.50	DRLPRC	02	D	P		<p>DRILL SLIDE 8062'-8634' (572', 67'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1740/1672. DIFFERENTIAL 290. TORQUE ON/OFF 11471/10252. STRING WEIGHT UP/DOWN/ROT 210/140/175. DRAG 35K.</p> <p>HOLDING VERTICAL @ 0.19 INC. VERTICAL @ 2954'. 21.2' NORTH 0.1' WEST OF LINE. SLIDE 18' AT 30'/HR. SLIDE 10% ROTATE 90%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 80 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR)</p> <p>10' FLARE FOR 8.5 HOURS-60,646 SCF. CURRENTLY NOT RUNNING PRESSURE CONTROLLED DRILLING.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/24/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		<p>DRILL SLIDE 8634'-9013' (379', 63'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1740/1672. DIFFERENTIAL 290. TORQUE ON/OFF 11471/10252. STRING WEIGHT UP/DOWN/ROT 210/140/175. DRAG 35K.</p> <p>HOLDING VERTICAL @ 1.69 INC. VERTICAL @ 2954'. 21.2' NORTH 0.1' WEST OF LINE. SLIDE 10' AT 30'/HR. SLIDE 3% ROTATE 97%.</p> <p>RUNNING 2 CENTRIFUGES AND NOT DE WATERING. (WEIGHT 8.8 VIS 34.) USED 21 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR)</p> <p>20' FLAIR FOR 6 HOURS-184,763 SCF. CURRENTLY HOLDING 100 PSI ON CONNECTIONS AND 0 PSI DURING DRILLING ON PRESSURE CONTROLLED DRILLING.</p>
	6:00 - 15:00	9.00	DRLPRC	02	D	P		<p>DRILL SLIDE 9013'-9520' (507', 56'/HR) TD@ 07/24/2012 15:00 WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 50. MUD MOTOR RPM 75. STROKES PER MINUTE 130 GALLONS PER MINUTE 471. ON/OFF PSI 1892/1747. DIFFERENTIAL 87. TORQUE ON/OFF 12196/8188. STRING WEIGHT UP/DOWN/ROT 240/160/200. DRAG 40K.</p> <p>HOLDING VERTICAL @ 3.0 INC. VERTICAL @ 2954'. 9.3' SOUTH 17.8' EAST OF LINE. SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%.</p> <p>RUNNING 2 CENTRIFUGES AND NOT DE WATERING. (WEIGHT 8.8 VIS 34.) USED 21 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR)</p> <p>20' FLAIR FOR 9 HOURS-277,145 SCF. CURRENTLY HOLDING 200 PSI ON CONNECTIONS AND 100 PSI DURING DRILLING ON PRESSURE CONTROLLED DRILLING.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/25/2012	15:00 - 20:00	5.00	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE. RAISE MUD WT TO 11.3 TO CONTROL GAS. NO FLARE WITH 11.3 MUD. HOLE SEEPING 10 BBLS HR. PUMP LCM SWEEPS TO CONTROL SEEPAGE. LOSS 20 BBLS. MUD IN 11.3 VIS 38 / MUD OUT 11.3 VIS 37. MIX 2 30 BBL 13.3# DRY JOB AND PUMP.
	20:00 - 0:00	4.00	EVALPR	06	E	P		TRIP OUT OF HOLE. NO TIGHT HOLE. HOLE SEEPING DURING TRIP OUT. NO FLOW ON FLOW CHECKS. LOSS ANOTHER 30 BBLS ON TRIP OUT.
	0:00 - 2:30	2.50	EVALPR	06	E	P		TRIP IN HOLE. NO BRIDGES. LOSS 20 BBLS ON TRIP IN HOLE. GOOD DISPLACEMENT THROUGH OUT TRIP. NO GAS ON TRIP IN.
	2:30 - 5:30	3.00	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE. RAISE MUD WT TO 12.0 TO CONTROL GAS. NO FLARE WITH 12.0 MUD. HOLE SEEPING 10 BBLS HR. PUMP LCM SWEEPS TO CONTROL SEEPAGE. LOSS 20 BBLS. MUD IN 12.0 VIS 40 / MUD OUT 11.9 VIS 43. MIX 40 BBL 14.0# DRY JOB AND PUMP.
	5:30 - 16:00	10.50	EVALPR	06	E	P		TRIP OUT OF HOLE FOR CASING RUN. LAYING DOWN DRILL STRING. NO TIGHT HOLE. HOLE SEEPING DURING TRIP OUT. NO FLOW ON FLOW CHECKS. LOSS ANOTHER 20 BBLS ON TRIP OUT.
	16:00 - 16:30	0.50	EVALPR	06	D	P		PULL ROTATING RUBBER, AND HEAVY WEIGHT DRILL PIPE. LAY DOWN DIRECTIONAL TOOL'S, BREAK BIT, LAY DOWN MOTOR. FUNCTION BLIND /PIPE RAMS. PULL WEAR BUSHING. NO FLOW ON FLOW CHECKS, HOLE TOOK PROPER FILL ON TRIP OUT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NVW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 23:30	7.00	EVALPR	12	C	P		<p>HOLD SAFETY MEETING WITH KIMZY CASING. MAKE UP 4.5" L-80 LTC CLOSED FLOAT SHOE ON SHOE SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" L-80 CLOSED FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 JOINTS. INSTALL ROTATING HEAD @ 1800'.</p> <p>RUN A TOTAL OF 103 JOINTS OF 4.5" 11.6# I-80 LTC CASING. MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN, PERFORM DUMP TEST</p> <p>CONTINUED TO RUN 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN. RUN A TOTAL OF 111 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN. LAY DOWN TWO JOINTS OF DQX BAD BOX/PIN, REPLACED WITH TWO JOINTS FROM STOCK PILE. RUN CASING TO BOTTOM.</p> <p>TOTAL OF 103 JOINTS OF 4.5" 11.6# I-80 LTC CASING. TOTAL OF 111 JOINTS OF 4.5" 11.6# I-80 DQX CASING TOTAL OF 114 JOINTS OF CASING</p> <p>SET FLOAT SHOE @ 9507.42' KB. SET TOP OF FLOAT COLLAR @ 9460.31' KB. SET TOP OF MESA MARKER JT @ 7273.46' KB. SET TOP DQX TO LTC CROSS OVER JT @ 4910.83' KB.</p>
	23:30 - 0:00	0.50	EVALPR	12	A	P		<p>CIRCULATE AND CONDITION HOLE. MUD IN 11.4 VIS 38 / MUD OUT 11.3 VIS 40. MUD COMING OVER SHAKERS IS CLEAN. 10' FLARE ON BOTTOMS UP FOR 1/2 HOUR-3,567 SCF</p>
7/26/2012	0:00 - 0:30	0.50	EVALPR	12	A	P		<p>CIRCULATE AND CONDITION HOLE. MUD IN 11.4 VIS 38 / MUD OUT 11.3 VIS 40. MUD COMING OVER SHAKERS IS CLEAN. 10' FLARE ON BOTTOMS UP FOR 1/2 HOUR-3,567 SCF</p> <p>HOLD SAFETY MEETING WITH BAKER HUGHES CEMENTERS. TIE BAKER HUGHES INTO CEMENT HEAD.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: SST 54/54, CAPSTAR 310/310

Event: DRILLING

Start Date: 4/30/2012

End Date: 7/26/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0:30 - 4:00	3.50	CSG	12	E	P		<p>PRESSURE TEST LINES TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 177 BBLS (442 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 241 BBLS (1035 SX) OF 14.3# 1.31 YIELD 5.90 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG</p> <p>DISPLACE W/ 147.1 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. PUMPED DISPLACEMENT WITH 0 BBLS CEMENT TO SURFACE AND 5' FLAIR THROUGH OUT. LIFT PSI OF 2111 @ 3 BBLS MINUTE. BUMP PLUG 3146 PSI. . PRESSURE HELD 5 MINUTES. FLOAT HELD. FLOW BACK 1.5 BBLS.</p> <p>ESTIMATED TOP OF CEMENT FOR LEAD SURFACE @ 15' , ESTIMATED TOP OF CEMENT FOR TAIL 4000'.</p> <p>RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. STORED 780 BBLS OF 11.4# MUD IN UPRIGHTS. REMOVE FLOW LINE. NIPPLE DOWN BOPE. HOLD SAFETY MEETING WITH CAMERON SLIP HAND. PULL LANDIN JOINT AND SET PACK OFF. LAY DOWN LANDING JOINT. CLEANED PITS WHILE RUNNING CASING.</p> <p>RELEASE RIG 07/26/2012 06:00.</p>
	4:00 - 6:00	2.00	CSG	14	A	P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-30L1CS BLACK	Wellbore No.	OH
Well Name	NBU 922-30L1CS	Wellbore Name	NBU 922-30L1CS
Report No.	1	Report Date	5/22/2012
Project	UTAH-UINTAH	Site	NBU 922-30L PAD
Rig Name/No.		Event	COMPLETION
Start Date	9/25/2012	End Date	10/23/2012
Spud Date	5/22/2012	Active Datum	RKB @4,989.00usft (above Mean Sea Level)
UWI	NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/NW/0/783/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,069.0 (usft)-9,302.0 (usft)	Start Date/Time	9/24/2012 12:00AM
No. of Intervals	78	End Date/Time	9/24/2012 12:00AM
Total Shots	288	Net Perforation Interval	90.00 (usft)
Avg Shot Density	3.20 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/24/2012 12:00AM	WASATCH/			6,069.0	6,071.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/24/2012 12:00AM	WASATCH/			6,190.0	6,192.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,243.0	6,245.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,446.0	6,447.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,470.0	6,471.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,487.0	6,488.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,514.0	6,515.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,607.0	6,608.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,628.0	6,629.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,712.0	6,713.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,736.0	6,737.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,791.0	6,792.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,817.0	6,818.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,847.0	6,848.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,899.0	6,900.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,909.0	6,910.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,943.0	6,944.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			6,983.0	6,984.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,022.0	7,023.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,085.0	7,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,117.0	7,118.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,145.0	7,146.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/24/2012 12:00AM	WASATCH/			7,179.0	7,180.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,196.0	7,197.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,254.0	7,255.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,280.0	7,281.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,295.0	7,296.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,321.0	7,322.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	WASATCH/			7,327.0	7,328.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,355.0	7,356.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,385.0	7,387.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,454.0	7,455.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,539.0	7,540.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,585.0	7,586.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,607.0	7,608.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,684.0	7,685.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,708.0	7,709.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,720.0	7,721.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,738.0	7,739.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,759.0	7,760.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,854.0	7,856.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			7,921.0	7,923.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,016.0	8,018.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/24/2012 12:00AM	MESAVERDE/			8,065.0	8,066.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,072.0	8,073.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,118.0	8,119.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,157.0	8,158.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,214.0	8,215.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,231.0	8,232.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,253.0	8,254.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,310.0	8,311.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,517.0	8,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,563.0	8,564.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,618.0	8,619.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,642.0	8,644.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,680.0	8,681.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,697.0	8,698.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,744.0	8,746.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,784.0	8,785.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,805.0	8,806.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,835.0	8,836.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,855.0	8,856.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,869.0	8,870.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			8,890.0	8,891.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/24/2012 12:00AM	MESAVERDE/			8,934.0	8,936.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,002.0	9,003.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,030.0	9,032.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,069.0	9,070.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,087.0	9,088.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,119.0	9,120.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,148.0	9,149.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,197.0	9,198.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,205.0	9,206.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,239.0	9,240.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,253.0	9,254.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,268.0	9,269.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,285.0	9,286.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/24/2012 12:00AM	MESAVERDE/			9,301.0	9,302.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/22/2012	-							
9/25/2012	12:00 - 13:30	1.50	FRAC	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 59 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 61 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 102 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. SWMFW
9/28/2012	7:00 - 11:00	4.00	FRAC	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWMFW
10/1/2012	6:30 - 6:45	0.25	FRAC	48		P		HSM, REVIEW FRAC
	6:45 - 17:30	10.75	FRAC	36	B	P		PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUMP'D
								FRAC STG #1] WHP=1,750#, BRK DN PERFS=3,559#, @=4.6 BPM, INJ RT=39.8, INJ PSI=4,375#, INITIAL ISIP=2,500#, INITIAL FG=.71, FINAL ISIP=2,782#, FINAL FG=.74, AVERAGE RATE=47.8, AVERAGE PRESSURE=5,401#, MAX RATE=53.2, MAX PRESSURE=5,949#, NET PRESSURE INCREASE=282#, 23/24 96% CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,138', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWMFW.
10/2/2012	6:45 - 7:00	0.25	FRAC	48		P		HSM, PLACEMENT, GOOD COMMUNICATION
	7:00 - 7:45	0.75	FRAC	46	E	Z		PROBLEMS W/ COMPUTERS

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:45 - 17:30	9.75	FRAC	36	B	P		<p>FRAC STG #2] WHP=1,942#, BRK DN PERFS=4,685#, @=4.7 BPM, INJ RT=50.7, INJ PSI=4,802#, INITIAL ISIP=2,430#, INITIAL FG=.71, FINAL ISIP=2,738#, FINAL FG=.74, AVERAGE RATE=50.7, AVERAGE PRESSURE=4,902#, MAX RATE=51.2, MAX PRESSURE=6,038#, NET PRESSURE INCREASE=308#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,921', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=1,948#, BRK DN PERFS=3,261#, @=5.1 BPM, INJ RT=52.8, INJ PSI=4,658#, INITIAL ISIP=2,212#, INITIAL FG=.69, FINAL ISIP=2,510#, FINAL FG=.72, AVERAGE RATE=52.6, AVERAGE PRESSURE=4,774#, MAX RATE=53.3, MAX PRESSURE=5,558#, NET PRESSURE INCREASE=298#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,728', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #4] WHP=377#, BRK DN PERFS=3,892#, @=4.9 BPM, INJ RT=52.8, INJ PSI=4,795#, INITIAL ISIP=2,038#, INITIAL FG=.68, FINAL ISIP=2,495#, FINAL FG=.73, AVERAGE RATE=52.7, AVERAGE PRESSURE=4,721#, MAX RATE=53.2, MAX PRESSURE=5,980#, NET PRESSURE INCREASE=457#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,341', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.</p> <p>FRAC STG #5] WHP=645#, BRK DN PERFS=4,257#, @=5.1 BPM, INJ RT=52.8, INJ PSI=4,491#, INITIAL ISIP=2,492#, INITIAL FG=.74, FINAL ISIP=2,495#, FINAL FG=.74, AVERAGE RATE=52.5, AVERAGE PRESSURE=4,640#, MAX RATE=53.2, MAX PRESSURE=5,895#, NET PRESSURE INCREASE=3#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,103', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK				Spud Date: 5/22/2012				
Project: UTAH-UINTAH			Site: NBU 922-30L PAD			Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3		
Event: COMPLETION			Start Date: 9/25/2012		End Date: 10/23/2012			
Active Datum: RKB @4,989.00usft (above Mean Sea Level)				UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/3/2012	6:45 - 7:00	0.25	FRAC	48		P		SWFNF. HSM, WORKING AROUND WIRE LINE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:00	10.00	FRAC	36	B	P		<p>FRAC STG #6] WHP=1,660#, BRK DN PERFS=3,724#, @=4.7 BPM, INJ RT=50.9, INJ PSI=4,088#, INITIAL ISIP=1,723#, INITIAL FG=.66, FINAL ISIP=2,429#, FINAL FG=.74, AVERAGE RATE=50.8, AVERAGE PRESSURE=4,411#, MAX RATE=51.4, MAX PRESSURE=4,600#, NET PRESSURE INCREASE=706#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,790', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #7] WHP=282#, BRK DN PERFS=1,481#, @=4.9 BPM, INJ RT=50.3, INJ PSI=5,211#, INITIAL ISIP=1,027#, INITIAL FG=.57, FINAL ISIP=2,128#, FINAL FG=.72, AVERAGE RATE=49.3, AVERAGE PRESSURE=4,412#, MAX RATE=51.1, MAX PRESSURE=5,776#, NET PRESSURE INCREASE=1,101#, 15/24 63% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,485', PERF MESAVERDE /WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=438#, BRK DN PERFS=2,001#, @=4.7 BPM, INJ RT=50.7, INJ PSI=4,970#, INITIAL ISIP=1,119#, INITIAL FG=.59, FINAL ISIP=2,187#, FINAL FG=.73, AVERAGE RATE=50.6, AVERAGE PRESSURE=4,440#, MAX RATE=51.2, MAX PRESSURE=5,725#, NET PRESSURE INCREASE=1,068#, 16/24 67% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,311', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW [MISSFIRE PLUG SET BOOTOM 4 GUNS SHOT AND WENT SHORT, POOH FIX PROBLEM RUN BACK IN WELL]</p> <p>FRAC STG #9] WHP=#, BRK DN PERFS=#, @= BPM, INJ RT=, INJ PSI=#, INITIAL ISIP=#, INITIAL FG=., FINAL ISIP=#, FINAL FG=., AVERAGE RATE=, AVERAGE PRESSURE=#, MAX RATE=, MAX PRESSURE=#, NET PRESSURE INCREASE=#, CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #10] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,053', PERF WASATCH</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/4/2012	6:30 - 6:45	0.25	FRAC	48		P		USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SVMFN.
	6:45 - 14:00	7.25	FRAC	36		P		HSM, RIGGING DOWN / OVERHEAD LOADS FRAC STG #10] WHP=183#, BRK DN PERFS=1,936#, @=5.1 BPM, INJ RT=50.9, INJ PSI=3,414#, INITIAL ISIP=979#, INITIAL FG=.58, FINAL ISIP=#, FINAL FG=., AVERAGE RATE=, AVERAGE PRESSURE=#, MAX RATE=, MAX PRESSURE=#, NET PRESSURE INCREASE=#, 24/24 96% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #11] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,767', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #11] WHP=961#, BRK DN PERFS=1948#, @=5.3 BPM, INJ RT=50.8, INJ PSI=4,510#, INITIAL ISIP=1,085#, INITIAL FG=.60, FINAL ISIP=1,402#, FINAL FG=.65, AVERAGE RATE=50.2, AVERAGE PRESSURE=4,276#, MAX RATE=51.2, MAX PRESSURE=4,778#, NET PRESSURE INCREASE=317#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #12] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,275', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #12] WHP=724#, BRK DN PERFS=2,277#, @=5.7 BPM, INJ RT=51.2, INJ PSI=2,823#, INITIAL ISIP=1,035#, INITIAL FG=.61, FINAL ISIP=1,143#, FINAL FG=.62, AVERAGE RATE=51.5, AVERAGE PRESSURE=3,039#, MAX RATE=51.7, MAX PRESSURE=3,421#, NET PRESSURE INCREASE=108#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=6,019' TOTAL FLUID PUMP'D=12,268 TOTAL SAND PUMP'D=296,757# HSM-JSA
10/22/2012	7:00 - 7:15	0.25	DRLOUT	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		<p>RDMO 922-30L4BS, MIRU, NDWH, NUBOP, PU 3 7/8" BIT & POBS W/ XN SN, RIH W/ 189 JTS 2 3/8" L-80 OFF FLOAT TAG FILL @ 6,004', RU PWR SWVL, BRK CIRC PRESS TEST BOP TO 3,000 PSI, LOST 0 PSI IN 15 MIN.</p> <p>C/O 15' SAND TAG PLUG #1 @ 6,019', DRL HAL 8K CBP IN 5 MIN, 0 PSI INC, FCP 0 PSI, RIH TAG FILL @ 6,255'.</p> <p>C/O 20' SAND TAG PLUG #2 @ 6,275', DRL HAL 8K CBP IN 6 MIN, 100 PSI INC, FCP 50 PSI, RIH TAG FILL @ 6,707'.</p> <p>C/O 60' SAND TAG PLUG #3 @ 6,767', DRL HAL 8K CBP IN 4 MIN, 100 PSI INC, FCP 100 PSI, RIH TAG FILL @ 7,023'.</p> <p>C/O 30' SAND TAG PLUG #4 @ 7,053', DRL HAL 8K CBP IN 4 MIN, 0 PSI INC, FCP 100 PSI, CIRC CLEAN, SWIFN.</p>
10/23/2012	7:00 - 7:15	0.25	DRLOUT	48		P		HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/NW/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 13:00	5.75	DRLOUT	44	C	P		<p>SICP 900 PSI, OPEN WELL CONT PU TBG RIH TAG FILL @ 7,286'.</p> <p>C/O 25' SAND TAG PLUG #5 @ 7,311', DRL HAL 8K CBP IN 4 MIN, 0 PSI INC, FCP 100 PSI, RIH TAG FILL @ 7,425'.</p> <p>C/O 60' SAND TAG PLUG #6 @ 7,485', DRL HAL 8K CBP IN 5 MIN, 200 PSI INC, FCP 200 PSI, RIH TAG FILL @ 7,760'.</p> <p>C/O 30' SAND TAG PLUG #7 @ 7,790', DRL HAL 8K CBP IN 6 MIN, 300 PSI INC, FCP 300 PSI, RIH TAG FILL @ 8,078'.</p> <p>C/O 25' SAND TAG PLUG #8 @ 8,103', DRL HAL 8K CBP IN 6 MIN, 100 PSI INC, FCP 300 PSI, RIH TAG FILL @ 8,306'.</p> <p>C/O 35' SAND TAG PLUG #9 @ 8,341', CRL HAL 8K CBP IN 4 MIN, 300 PSI INC, FCP 400 PSI, RIH TAG FILL @ 8,698'.</p> <p>C/O 35' SAND TAG PLUG #10 @ 8,728', DRL HAL 8K CBP IN 5 MIN, 400 PSI INC, FCP 500 PSI, RIH TAG FILL @ 8,891'.</p> <p>C/O 30' SAND TAG PLUG #11 @ 8,921', DRL HAL 8K CBP IN 5 MIN, 400 PSI INC, FCP 600 PSI, RIH TAG FILL @ 9,088'.</p> <p>C/O 50' SAND TAG PLUG #12 @ 9,138', DRL HAL 8K CBP IN 6 MIN, 200 PSI INC, FCP 600 PSI, RIH TAG FILL @ 9,430' (128' BELOW BTM PERF), CIRC CLEAN, RD PWR SWWL, POOH LD 17 JTS TBG, LAND TBG W/ 279 JTS 2 3/8" L-80 EOT @ 8,913.66', RD FLOOR & TBG EQUIP, NDBOP, NUWH, POBS @ 1,700 PSI, PRESS TEST FLOWLINE BETWEEN WELLHEAD & HAL 9,000 TO 3,000 PSI, LET BIT FALL 20 MIN TURN OVER TO FBC. RDMO.</p> <p>KB-18' HANGER-.83' 279 JTS 2 3/8" L-80-8,892.63' POBS W/ XN SN-2.20' EOT @ 8,913.66'</p> <p>DEL 313 JTS USED 279 JTS RET 34 JTS</p> <p>TWTR=12,640 BBLS TWR=2,977 BBLS TWLTR=9,663 BBLS</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30L1CS BLACK

Spud Date: 5/22/2012

Project: UTAH-UINTAH

Site: NBU 922-30L PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 9/25/2012

End Date: 10/23/2012

Active Datum: RKB @4,989.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/30/0/0/26/PM/S/2085/W/0/783/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 13:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1300 HR ON 10/23/2012. 3153 MCFD, 1920 BWPD, FCP 2250#, FTP 2225#, 20/64" CK.
10/24/2012	7:00 -			50				WELL IP'D ON 10/24/12 - 2759 MCFD, 1152 BWPD, 0 BOPD, CP 2423#, FTP 1900#, LP 83#, 24 HRS, CK 20/64

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 922-30L PAD
Well: NBU 922-30L1CS
Wellbore: NBU 922-30L1CS
Section:
SHL:
Design: NBU 922-30L1CS (wp01)
Latitude: 40.005499
Longitude: -109.487175
GL: 4871.00
KB: 4971' GL + 18' RKB @ 4969.00ft (SST 54)

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
4652.00	4654.98	WASATCH
5252.00	5254.98	top of cylinder
7279.00	7282.02	MESAVERDE
9501.00	9504.05	SEGO

WELL DETAILS: NBU 922-30L1CS

+N/-S	+E/-W	Northing	Ground Level: Easting	4971.00 Latitude	Longitude	Slot
0.00	0.00	14531642.75	2064070.53	40.005499	-109.487175	

CASING DETAILS

TVD	MD	Name	Size
2628.86	2631.51	8-5/8"	8-5/8



Azimuths to True North
Magnetic North: 10.95°

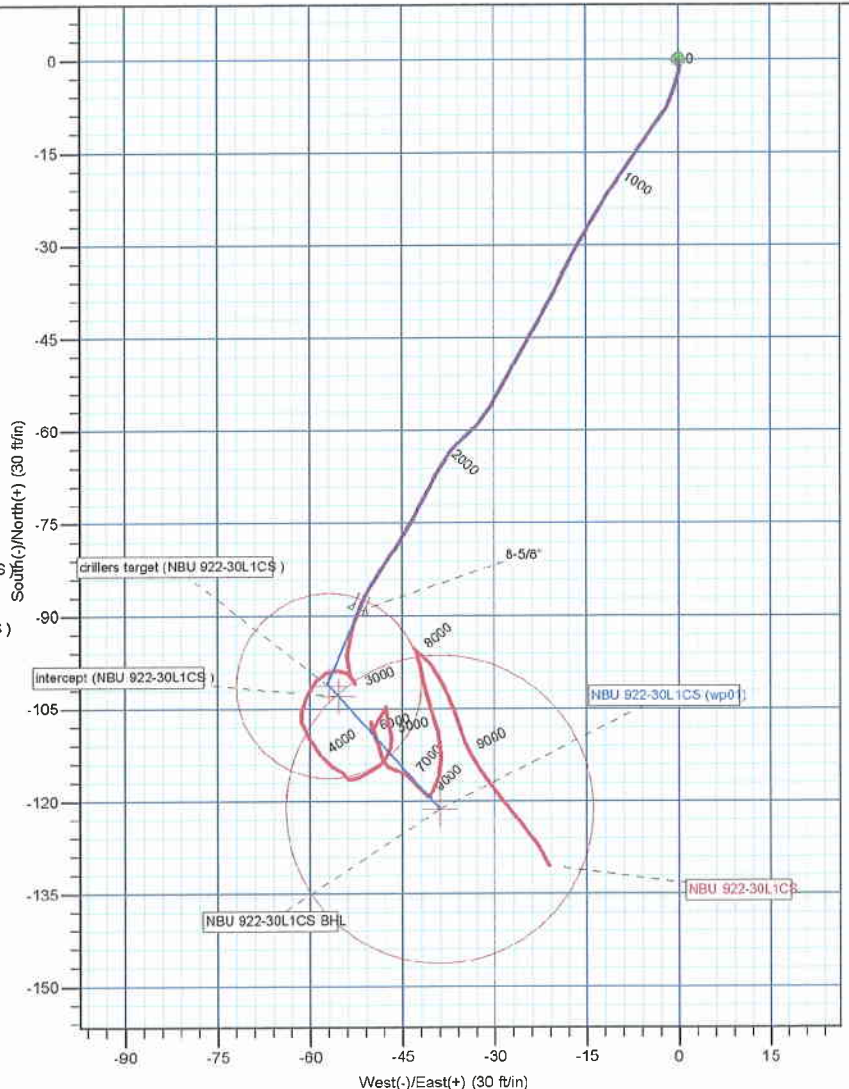
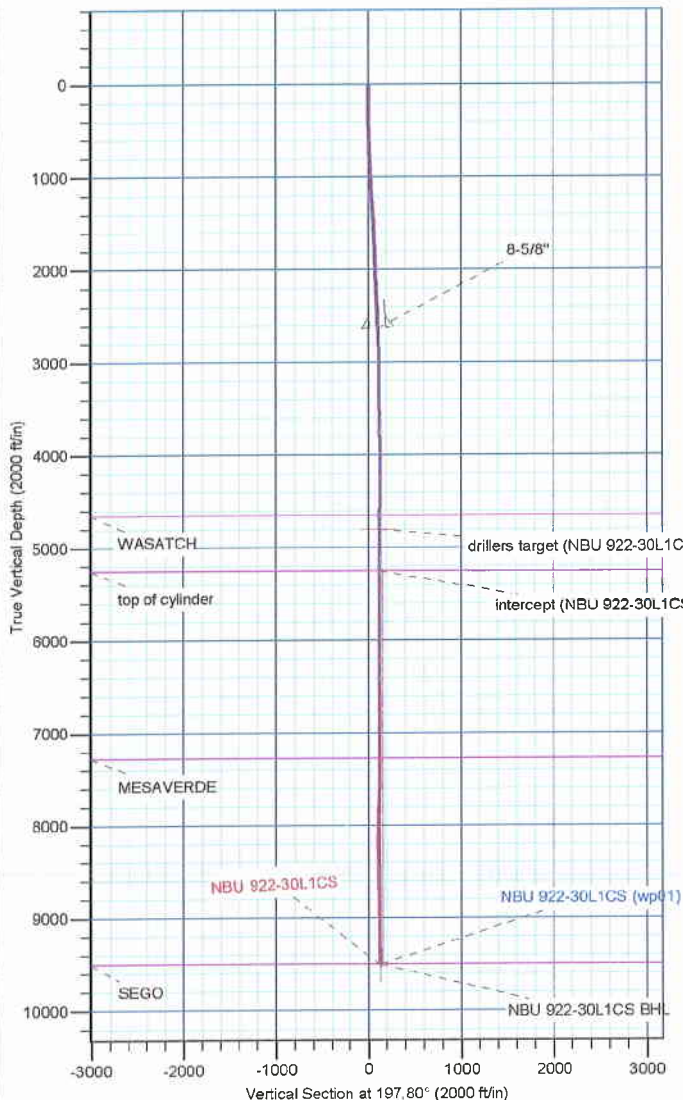
Magnetic Field
Strength: 52238.7nT
Dip Angle: 65.85°
Date: 5/29/2012
Model: IGRF2010

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
drillers target (NBU 922-30L1CS)	4800.00	-101.28	-56.93	14531540.52	2064015.33	40.005221	-109.487378	Circle (Radius: 15.00)
Intercept (NBU 922-30L1CS)	5252.00	-103.00	-55.38	14531538.82	2064016.91	40.005216	-109.487373	Point
NBU 922-30L1CS BHL	9501.00	-121.28	-38.93	14531520.82	2064033.66	40.005166	-109.487314	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
2608.00	3.43	202.82	2605.39	-87.99	-51.70	0.00	0.00	99.58
2758.00	3.43	202.82	2755.13	-96.26	-55.19	0.00	0.00	108.52
2929.23	0.01	141.07	2926.26	-100.99	-57.16	2.00	-179.83	113.63
4802.98	0.01	141.07	4800.00	-101.28	-56.93	0.00	0.00	113.83
4909.75	0.33	138.02	4906.77	-101.52	-56.72	0.30	-3.15	114.00
9504.05	0.33	138.02	9501.00	-121.28	-38.93	0.00	0.00	127.38



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_NBU 922-30L PAD

NBU 922-30L1CS

NBU 922-30L1CS

Design: NBU 922-30L1CS

Standard Survey Report

26 July, 2012

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Site:	UINTAH_NBU 922-30L PAD	MD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Well:	NBU 922-30L1CS	North Reference:	True
Wellbore:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Design:	NBU 922-30L1CS	Database:	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_NBU 922-30L PAD				
Site Position:		Northing:	14,531,670.05 usft	Latitude:	40.005572
From:	Lat/Long	Easting:	2,064,112.37 usft	Longitude:	-109.487024
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.97 °

Well	NBU 922-30L1CS					
Well Position	+N/-S	0.00 ft	Northing:	14,531,642.75 usft	Latitude:	40.005499
	+E/-W	0.00 ft	Easting:	2,064,070.53 usft	Longitude:	-109.487175
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,971.00 ft

Wellbore	NBU 922-30L1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/29/2012	10.95	65.85	52,239

Design	NBU 922-30L1CS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	9.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	15.00	0.00	0.00	189.19	

Survey Program	Date	7/25/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
239.00	2,608.00	Survey #1 (NBU 922-30L1CS)	MWD	MWD - STANDARD
2,668.00	9,520.00	Survey #2 (NBU 922-30L1CS)	MWD	MWD - STANDARD

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
239.00	0.18	269.53	239.00	0.00	-0.36	0.06	0.08	0.08	0.00	
329.00	0.26	155.80	329.00	-0.19	-0.42	0.25	0.41	0.09	-126.37	
421.00	0.35	100.78	421.00	-0.43	-0.06	0.44	0.32	0.10	-59.80	
516.00	1.41	190.34	515.99	-1.64	0.02	1.61	1.53	1.12	94.27	
611.00	1.41	197.46	610.96	-3.90	-0.54	3.94	0.18	0.00	7.49	
706.00	1.58	199.04	705.93	-6.26	-1.32	6.39	0.18	0.18	1.66	
802.00	2.55	216.44	801.86	-9.22	-3.02	9.59	1.19	1.01	18.13	
896.00	3.08	212.84	895.75	-13.03	-5.63	13.76	0.59	0.56	-3.83	
989.00	3.34	215.54	988.60	-17.33	-8.56	18.48	0.32	0.28	2.90	

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Site:	UINTAH_NBU 922-30L PAD	MD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Well:	NBU 922-30L1CS	North Reference:	True
Wellbore:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Design:	NBU 922-30L1CS	Database:	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,083.00	3.54	212.09	1,082.44	-22.02	-11.70	23.60	0.31	0.21	-3.67
1,177.00	3.87	210.29	1,176.24	-27.22	-14.84	29.24	0.37	0.35	-1.91
1,272.00	3.25	208.09	1,271.06	-32.36	-17.72	34.78	0.67	-0.65	-2.32
1,366.00	3.34	205.90	1,364.90	-37.17	-20.17	39.92	0.16	0.10	-2.33
1,460.00	3.34	210.29	1,458.74	-42.00	-22.75	45.10	0.27	0.00	4.67
1,556.00	3.69	209.24	1,554.56	-47.11	-25.67	50.61	0.37	0.36	-1.09
1,649.00	3.25	208.97	1,647.39	-52.03	-28.41	55.90	0.47	-0.47	-0.29
1,745.00	2.29	210.03	1,743.28	-56.07	-30.69	60.25	1.00	-1.00	1.10
1,839.00	1.85	221.28	1,837.21	-58.84	-32.63	63.29	0.64	-0.47	11.97
1,932.00	1.93	229.54	1,930.16	-60.98	-34.81	65.76	0.30	0.09	8.88
2,026.00	2.29	221.89	2,024.10	-63.41	-37.27	68.54	0.49	0.38	-8.14
2,119.00	2.81	203.96	2,117.01	-66.87	-39.43	72.31	1.02	0.56	-19.28
2,210.00	2.73	210.12	2,207.90	-70.79	-41.43	76.49	0.34	-0.09	6.77
2,302.00	2.81	206.07	2,299.80	-74.71	-43.52	80.70	0.23	0.09	-4.40
2,396.00	2.74	216.16	2,393.69	-78.59	-45.86	84.90	0.52	-0.07	10.73
2,488.00	2.90	213.54	2,485.57	-82.31	-48.44	88.98	0.22	0.17	-2.85
2,581.00	3.25	209.06	2,578.44	-86.57	-51.02	93.61	0.46	0.38	-4.82
2,608.00	3.43	202.82	2,605.39	-87.99	-51.70	95.11	1.50	0.67	-23.11
TIE ON									
2,668.00	3.59	197.13	2,665.28	-91.43	-52.95	98.72	0.64	0.27	-9.48
FIRST MWD SURVEY									
2,763.00	2.63	185.36	2,760.14	-96.45	-54.03	103.84	1.21	-1.01	-12.39
2,858.00	1.63	149.23	2,855.08	-99.78	-53.55	107.05	1.71	-1.05	-38.03
2,954.00	0.25	95.73	2,951.07	-100.97	-52.64	108.08	1.56	-1.44	-55.73
3,050.00	1.00	326.73	3,047.06	-100.29	-52.89	107.45	1.22	0.78	-134.38
3,145.00	0.91	302.82	3,142.05	-99.19	-53.98	106.54	0.43	-0.09	-25.17
3,240.00	1.12	269.01	3,237.03	-98.80	-55.54	106.40	0.66	0.22	-35.59
3,336.00	1.30	246.32	3,333.01	-99.25	-57.48	107.16	0.53	0.19	-23.64
3,431.00	1.44	218.23	3,427.99	-100.62	-59.20	108.78	0.71	0.15	-29.57
3,527.00	1.56	203.86	3,523.95	-102.77	-60.48	111.10	0.41	0.13	-14.97
3,622.00	1.69	192.73	3,618.92	-105.31	-61.31	113.75	0.36	0.14	-11.72
3,716.00	0.56	158.73	3,712.90	-107.09	-61.45	115.53	1.35	-1.20	-36.17
3,812.00	1.00	154.23	3,808.89	-108.29	-60.91	116.62	0.46	0.46	-4.69
3,907.00	1.31	149.11	3,903.87	-109.96	-60.00	118.13	0.34	0.33	-5.39
4,003.00	1.94	145.11	3,999.83	-112.24	-58.50	120.14	0.67	0.66	-4.17
4,098.00	1.69	124.48	4,094.78	-114.35	-56.43	121.89	0.73	-0.26	-21.72
4,193.00	0.69	109.73	4,189.76	-115.34	-54.73	122.60	1.09	-1.05	-15.53
4,288.00	0.56	186.11	4,284.76	-115.99	-54.25	123.16	0.82	-0.14	80.40
4,384.00	0.75	88.86	4,380.75	-116.45	-53.67	123.52	1.03	0.20	-101.30
4,478.00	1.19	73.73	4,474.74	-116.16	-52.12	122.99	0.54	0.47	-16.10
4,573.00	1.31	49.36	4,569.72	-115.18	-50.34	121.74	0.57	0.13	-25.65
4,668.00	1.00	69.23	4,664.70	-114.18	-48.75	120.49	0.53	-0.33	20.92
4,764.00	1.19	16.11	4,760.68	-112.92	-47.69	119.09	1.04	0.20	-55.33

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-30L1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Site:	UINTAH_NBU 922-30L PAD	MD Reference:	4971' GL + 18' RKB @ 4989.00ft (SST 54)
Well:	NBU 922-30L1CS	North Reference:	True
Wellbore:	NBU 922-30L1CS	Survey Calculation Method:	Minimum Curvature
Design:	NBU 922-30L1CS	Database:	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,858.00	0.94	33.61	4,854.67	-111.34	-46.99	117.41	0.43	-0.27	18.62
4,953.00	1.38	347.11	4,949.65	-109.58	-46.81	115.64	1.05	0.46	-48.95
5,049.00	1.00	349.86	5,045.63	-107.62	-47.22	113.78	0.40	-0.40	2.86
5,143.00	0.69	346.73	5,139.62	-106.27	-47.49	112.49	0.33	-0.33	-3.33
5,238.00	0.44	354.86	5,234.61	-105.35	-47.66	111.60	0.28	-0.26	8.56
5,334.00	0.25	359.48	5,330.61	-104.77	-47.69	111.04	0.20	-0.20	4.81
5,429.00	0.06	163.48	5,425.61	-104.61	-47.68	110.88	0.32	-0.20	172.63
5,525.00	0.44	207.86	5,521.61	-104.98	-47.84	111.27	0.42	0.40	46.23
5,620.00	0.63	213.11	5,616.61	-105.74	-48.29	112.10	0.21	0.20	5.53
5,716.00	0.81	211.61	5,712.60	-106.76	-48.94	113.21	0.19	0.19	-1.56
5,811.00	0.94	202.73	5,807.59	-108.05	-49.59	114.59	0.20	0.14	-9.35
5,906.00	0.44	353.61	5,902.58	-108.41	-49.93	114.99	1.41	-0.53	158.82
6,002.00	0.44	345.86	5,998.58	-107.69	-50.06	114.30	0.06	0.00	-8.07
6,097.00	0.19	359.61	6,093.58	-107.18	-50.15	113.81	0.27	-0.26	14.47
6,192.00	0.13	176.36	6,188.58	-107.13	-50.15	113.76	0.34	-0.06	186.05
6,287.00	0.50	158.36	6,283.58	-107.62	-49.99	114.22	0.40	0.39	-18.95
6,383.00	0.69	165.36	6,379.57	-108.57	-49.69	115.11	0.21	0.20	7.29
6,478.00	0.88	161.48	6,474.56	-109.81	-49.31	116.28	0.21	0.20	-4.08
6,573.00	0.94	160.23	6,569.55	-111.24	-48.81	117.60	0.07	0.06	-1.32
6,668.00	1.31	167.61	6,664.53	-113.03	-48.32	119.30	0.42	0.39	7.77
6,764.00	0.94	112.31	6,760.52	-114.40	-47.35	120.50	1.14	-0.39	-57.60
6,859.00	1.13	115.36	6,855.50	-115.10	-45.79	120.93	0.21	0.20	3.21
6,954.00	0.75	118.98	6,950.49	-115.80	-44.40	121.40	0.40	-0.40	3.81
7,049.00	1.44	138.61	7,045.47	-117.00	-43.06	122.37	0.82	0.73	20.66
7,145.00	1.31	135.61	7,141.44	-118.69	-41.50	123.79	0.15	-0.14	-3.13
7,239.00	0.19	0.98	7,235.44	-119.30	-40.74	124.27	1.54	-1.19	-143.22
7,335.00	1.13	39.23	7,331.43	-118.41	-40.14	123.30	1.03	0.98	39.84
7,430.00	1.94	13.61	7,426.40	-116.12	-39.17	120.88	1.10	0.85	-26.97
7,525.00	2.19	3.36	7,521.33	-112.74	-38.69	117.47	0.47	0.26	-10.79
7,621.00	2.69	343.36	7,617.25	-108.75	-39.22	113.62	1.02	0.52	-20.83
7,717.00	2.56	341.61	7,713.15	-104.56	-40.54	109.69	0.16	-0.14	-1.82
7,811.00	2.06	347.48	7,807.07	-100.92	-41.57	106.26	0.59	-0.53	6.24
7,907.00	1.88	351.98	7,903.01	-97.68	-42.17	103.16	0.25	-0.19	4.69
8,002.00	0.81	320.61	7,997.99	-95.61	-42.81	101.22	1.33	-1.13	-33.02
8,097.00	0.19	137.60	8,092.99	-95.21	-43.13	100.88	1.05	-0.65	186.31
8,193.00	0.44	134.48	8,188.98	-95.59	-42.76	101.19	0.26	0.26	-3.25
8,288.00	0.63	127.86	8,283.98	-96.16	-42.09	101.65	0.21	0.20	-6.97
8,383.00	0.88	135.48	8,378.97	-97.00	-41.16	102.33	0.28	0.26	8.02
8,479.00	1.06	144.11	8,474.96	-98.25	-40.13	103.40	0.24	0.19	8.99
8,574.00	1.44	152.86	8,569.93	-100.02	-39.07	104.98	0.45	0.40	9.21
8,670.00	1.75	154.23	8,665.90	-102.42	-37.88	107.15	0.33	0.32	1.43
8,765.00	1.88	158.48	8,760.85	-105.17	-36.68	109.68	0.20	0.14	4.47
8,860.00	1.56	164.86	8,855.81	-107.87	-35.77	112.20	0.39	-0.34	6.72
8,955.00	1.69	156.73	8,950.77	-110.41	-34.88	114.56	0.28	0.14	-8.56

Anadarko Petroleum Corp

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 922-30L PAD
Well: NBU 922-30L1CS
Wellbore: NBU 922-30L1CS
Design: NBU 922-30L1CS

Local Co-ordinate Reference: Well NBU 922-30L1CS
TVD Reference: 4971' GL + 18' RKB @ 4989.00ft (SST 54)
MD Reference: 4971' GL + 18' RKB @ 4989.00ft (SST 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,050.00	2.13	150.23	9,045.72	-113.23	-33.45	117.11	0.52	0.46	-6.84
9,146.00	2.50	142.73	9,141.64	-116.44	-31.29	119.94	0.50	0.39	-7.81
9,242.00	2.50	142.37	9,237.55	-119.76	-28.75	122.82	0.02	0.00	-0.38
9,337.00	2.44	140.23	9,332.46	-122.96	-26.19	125.56	0.12	-0.06	-2.25
9,432.00	2.75	143.98	9,427.36	-126.36	-23.55	128.50	0.37	0.33	3.95
9,460.00	3.00	147.23	9,455.33	-127.52	-22.76	129.52	1.07	0.89	11.61
LAST MWD SURVEY									
9,520.00	3.54	154.19	9,515.23	-130.50	-21.11	132.20	1.12	0.90	11.60
PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,608.00	2,605.39	-87.99	-51.70	TIE ON
2,668.00	2,665.28	-91.43	-52.95	FIRST MWD SURVEY
9,460.00	9,455.33	-127.52	-22.76	LAST MWD SURVEY
9,520.00	9,515.23	-130.50	-21.11	PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____